

Lebms

GOETHE

FAUST

ha

h





c-2d, N<sub>2</sub> diff.

-v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>

v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>,

-v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>

v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>,

-v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>,

v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>;

v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>,

-v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub> ~ v<sub>1</sub> v<sub>2</sub>.

VORSPIEL AUF DEM THEATER

entw. undh. f. Co.

entw.:

1. Ue, 1. v - ll,  
 2. ~ 1 - No, Ugen,  
 d, Co r c z r r  
 I z L u z ll?  
 1. Co f o' v j u m,  
 & c o d - m b.  
 1. E f z, 1. U s p u,  
 - t e r r e d ) ~ l b.  
 6 o f j z z z z l u  
 p e r - v h m p u  
 1. c o, o u ~ z b o L o r o o l;  
 d - m v 1 ~ p o:  
 f z b ~ e l l / p d,  
 m b z f u d p o:  
 o r h s, e o l l - m  
 - z u e z j f o' ?  
 e l v m, v o z,  
 c) f u d i e v l,  
 - z p e l f o z  
 j p, r n e l t p d;  
 U z r n, j - h u,  
 z f o' j l ~ n o l l

$\sim, 0, 2, 2, 0, 1, 2, 1, 2, 0, 0, 0, 0,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$

dh:

$\sim, 0, 1, 2, 0, 1, 2, 0, 0,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$

$0, 1, 2, 0, 1, 2, 0, 0,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$

dh:

$0, 1, 2, 0, 1, 2, 0, 0,$   
 $2 \sim 0, 1) 0, 1, 2, 0, 0,$   
 $9, 0, 0, 0, 1, 5 - 9, 1, 2$   
 $\sim 0, 1, 2, 0, 1, 2, 1, 2, 1,$

α δ ε ζ η θ ι  
~ - 6 7 - 8 - 9 - 10  
κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ω  
; ε λ μ ν ο π ρ σ τ υ φ χ ψ ω  
α β γ δ ε ζ η θ ι κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ω  
~ 1 2 3 4 5 6 7 8 9 10 11 12  
~ 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  
~ 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
~ 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70  
~ 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90  
~ 91 92 93 94 95 96 97 98 99 100

*ent:*

α β γ δ ε ζ η θ ι  
κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ω  
~ 1 2 3 4 5 6 7 8 9 10 11 12  
~ 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  
~ 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50  
~ 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70  
~ 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90  
~ 91 92 93 94 95 96 97 98 99 100

cos<sup>2</sup>, cr ~ 2p qll!  
e<sub>cr</sub>' - 1/2 p<sub>cr</sub>.

sh:

r b1, 0 p<sub>l</sub> ~ 2 p<sub>cr</sub>!  
0 cr e<sup>2</sup> h<sub>cr</sub> n<sub>cr</sub> p<sub>cr</sub>!  
' cr n<sub>cr</sub> p<sub>cr</sub>  
; m<sub>cr</sub> p<sub>cr</sub> 1/2 p<sub>cr</sub>.

ent:

~ 2 a b b p<sub>cr</sub> n<sub>cr</sub>:  
~ n<sub>cr</sub> p<sub>cr</sub> n<sub>cr</sub> n<sub>cr</sub>,  
20 s e b e n p<sub>cr</sub> 2<sub>cr</sub>.  
ent, r n<sub>cr</sub> 2 p<sub>cr</sub> p<sub>cr</sub>,  
- 0 1 2, l<sub>cr</sub> p<sub>cr</sub>!  
cr n<sub>cr</sub> n<sub>cr</sub>,  
n<sub>cr</sub> h<sub>cr</sub> 0 1 2 p<sub>cr</sub> n<sub>cr</sub>,  
- , co e n p<sub>cr</sub> n<sub>cr</sub>,  
n<sub>cr</sub> n<sub>cr</sub> n<sub>cr</sub> p<sub>cr</sub> n<sub>cr</sub>.  
n<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub> ~ 20 n<sub>cr</sub> b<sub>cr</sub>,  
- ~ n<sub>cr</sub> p<sub>cr</sub> n<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub>;  
, n<sub>cr</sub> n<sub>cr</sub>) - n<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub>  
- p<sub>cr</sub> → n<sub>cr</sub> p<sub>cr</sub>.  
co l<sub>cr</sub> r s ~ n<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub>!  
co l<sub>cr</sub> ~ co 2<sub>cr</sub> p<sub>cr</sub> p<sub>cr</sub>!  
co 1, 2 n<sub>cr</sub> i ~ n<sub>cr</sub> p<sub>cr</sub>!  
2e<sup>2</sup> b n<sub>cr</sub>, 2e<sup>2</sup> b n<sub>cr</sub>.



∫ D²ψψ, 2θ ~ √g;  
∫ d⁴x ~ ∫ d⁴x  
co(1) ~ √g, √g,  
∫ D²ψ, 12 ~ √g  
∫ d⁴x, ∫ d⁴x ~ √g, √g,  
— ∫ d⁴x ∫ d⁴x ~ √g  
d⁴x ~ ∫ d⁴x ∫ d⁴x,  
6 ∫ d⁴x; ∫ d⁴x  
co(1) ∫ d⁴x, ∫ d⁴x

du:

∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x,  
∫ d⁴x, ∫ d⁴x ~ ∫ d⁴x,  
∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x,  
— ∫ d⁴x, ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x,  
∫ d⁴x, ∫ d⁴x,  
∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x, ∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x, ∫ d⁴x ~ ∫ d⁴x  
∫ d⁴x ~ ∫ d⁴x

a b~g~u, j~u~f~d~u~?  
e~v~e~r~u~n~d~o~r~?  
a~z~u~g~z~u~b~t~u~  
s~i~p~l~e~z~?  
a~b~l~i~e~r~e~u~  
j~u~n~g~u~n~d~t~e~n~?  
a~b~t~u~m~r~u~?  
o~u~g~e~n~t~l~i~c~h~t.

f~o~l~g~e:

- U~b~e~r, j~u~n~t  
- U~n~d, d~i~e  
o~u~n~t~l~i~c~h~t.  
f~u~n~k~t~i~o~n~e~n,  
- D~i~e, d~i~e  
- d~e~r, e~i~n~l~i~c~h~t  
n~i~c~h~t, n~u~n~d~z~u~n~  
- s~u~n~t~l~i~c~h~t, p~r~i~n~t~  
b~i~n~n~t~  
Z~u~n~e~n~e~r~  
~t~e~n~d~, l~e~n~d~,  
- c~o~n~t~r~o~l~l~i~c~h~t.  
z~u~n~e~n~t~l~i~c~h~t,  
f~u~n~k~t~i~o~n~e~n,  
- f~u~n~k~t~i~o~n~e~n  
~t~e~n~d~-s~t~r~  
e~n~d~t~l~i~c~h~t

—  $r p - j' l u$ ,  
en on to  $j' p$   
—  $r c u$  )  $r u j' u$ ,  
en'  $u e$ ,  $u e$  to  $q v$   
—  $u e$ ,  $c o$ ,  $p z p u$ .  
 $2^2$   $u$ ,  $j c u - j u$ ,  
 $u u$   $2^2$   $u$ ,  $u$   $j u$ ;  
 $c u$ ;  $2^2$   $u$   $j u$ ;  
—  $c u$   $p e u$ .

*du:*

—  $r u$   $D$ ,  $j' E$ ,  
 $u$ ,  $2$   $u$   $c u$ ,  
 $u$  )  $u$   $j' u$   
 $u$   $u$   $u$ ,  
 $u$   $u$   $u$ ,  
 $u$   $u$   $u$ ,  
 $u$   $u$   $u$ ,  
 $u$   $u$   $u$ .  
 $u$   $u$   $u$ :  
—  $u$   $u$   $u$   $u$ .  
 $u$   $u$   $u$ ,  
 $u$ ,  $u$   $u$ ,  
 $u$   $u$ ,  $u$   $u$ ,  
 $u$   $u$   $u$ !

st. Co.:

from 2010, 2011, 2012, 2013,  
2014, 2015, 2016, 2017,  
2018, 2019, 2020  
January 2020,  
change to my  
signature, 2017,  
and 2018, 2019,  
in 2020, 2021.  
2020, 2021,  
2022, 2023,  
2024, 2025,  
2026, 2027,  
2028, 2029,  
2030, 2031,  
2032, 2033, 2034,  
2035, 2036, 2037,  
2038, 2039, 2040.  
2041, 2042, 2043,  
2044, 2045, 2046,  
2047, 2048, 2049,  
2050, 2051, 2052,  
2053, 2054, 2055,  
2056, 2057, 2058,  
2059, 2060, 2061,  
2062, 2063, 2064,  
2065, 2066, 2067,  
2068, 2069, 2070,  
2071, 2072, 2073,  
2074, 2075, 2076,  
2077, 2078, 2079,  
2080, 2081, 2082,  
2083, 2084, 2085,  
2086, 2087, 2088,  
2089, 2090, 2091,  
2092, 2093, 2094,  
2095, 2096, 2097,  
2098, 2099, 2100.

end:

2010, 2011, 2012,  
2013, 2014, 2015,  
2016, 2017, 2018,  
2019, 2020,  
2021, 2022,  
2023, 2024,  
2025, 2026,  
2027, 2028,  
2029, 2030,  
2031, 2032,  
2033, 2034,  
2035, 2036,  
2037, 2038,  
2039, 2040,  
2041, 2042,  
2043, 2044,  
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2057, 2058,  
2059, 2060,  
2061, 2062,  
2063, 2064,  
2065, 2066,  
2067, 2068,  
2069, 2070,  
2071, 2072,  
2073, 2074,  
2075, 2076,  
2077, 2078,  
2079, 2080,  
2081, 2082,  
2083, 2084,  
2085, 2086,  
2087, 2088,  
2089, 2090,  
2091, 2092,  
2093, 2094,  
2095, 2096,  
2097, 2098,  
2099, 2100.

Siunt, coruorh,  
r — ju pu gph;  
~ 4v p p e!  
co 2 1 p; 2 m 1 p,  
- ~ n° 2 u lo,  
e 2 2° 30  
u p — 1 u g l lo,  
- e / l u o  
- o m c, c. 20.

r d, s i z u m  
L u ~ t e r, c o . v;  
e z u v ~ 9° n  
L p t 1 - 1 y p.  
M e 2 o, - m d e s t,  
i g u o l t r g e r;  
~ c o, l z, l e n c e r,  
~ v - L e n t l . l.  
- j 1 2 ~ l u s o  
~ u p ~ o ' z l y e,  
- o e d 2 u l b n z u  
L z o p, d / 2 u.

PROLOG IM HIMMEL

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

2.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Dr.

- gebrüder,  
Lust, Freude, Freude,  
- der Freude  
- der Freude,  
er hat - Freude  
2. Freude  
dein, du, du  
coll. Freude.

Dr.

- der Freude  
er hat Freude,  
- Freude  
2. Freude.

Dr.

er hat, du, Freude  
- Freude,  
- Freude,  
- Freude,  
er hat Freude,  
- Freude,  
er hat Freude,  
er hat Freude,  
er hat Freude,  
er hat Freude,  
er hat Freude,  
er hat Freude.

in der ...

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in:

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in:

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alg. Geo.

~ 22

22:

~ null!

alg. Geo.

ker.  $\rightarrow$  s' c.

1/10  $\rightarrow$  ker  $\rightarrow$  p.

~ ker, 2, 1, ker,

;)  $\rightarrow$  ker  $\rightarrow$  ker;

ker ker, 1, 2, 5, ker

- ker ker  $\rightarrow$  ker,

- ker  $\rightarrow$  ker

ker, ker  $\rightarrow$  ker.

22:

c, v, D  $\rightarrow$  ker,

- ker  $\rightarrow$  ker,

ker  $\rightarrow$  ker, ker  $\rightarrow$  ker,

ker  $\rightarrow$  ker, ker  $\rightarrow$  ker.

alg. Geo.

ker  $\rightarrow$  ker  $\rightarrow$  ker!

ker  $\rightarrow$  ker,

~ ker  $\rightarrow$  ker.

2:

— r, s, r, d,  
— r, e, l, u,  
— N, r, g — r, f, d.

2/3

e, e, r, j, e, l, ~, l, n  
r, v, s, o, m, d, n.  
r, r, b, t, v, u, u, b, r, o, n.  
l, r, s, o, v, 1/2, i  
v, n, o, r, g, l, 2.

2:

~, n, r, o, s, o!  
p, r, r, b, s, o, r, k, a,  
— b, r, r, e, r, l, o,  
s, e, r, o, r, n,  
— p, r, y, d, c, e, u, m, b:  
~, n, r, g, r, o, e, m, n, r,  
j, o, s, h, o, o, c, u, b.

2/3

j, n, r, e, s, l, -, l, n.  
v, l, r, a, n, l, n.  
c, 1/2, r, g, r, n,  
v, l, r, v, k, l, o, u, l, f.  
j, e, l, o, -, r, b,

or  $m, \omega^2 z$ .

$\cdot z$ :

$e^{\omega^2 D} e^{-\omega^2 z}$   
 $\cdot z e^{\omega^2 z} \sim p_0$   
 $\cdot z e^{\omega^2 z}, \dots$   
 $\cdot z^2 e^{\omega^2 z} / 2!$   
 $\cdot z^3 e^{\omega^2 z} / 3!$   
 $\cdot z^4 e^{\omega^2 z} / 4!$   
 $\cdot z^5 e^{\omega^2 z} / 5!$   
 $\cdot z^6 e^{\omega^2 z} / 6!$   
 $\cdot z^7 e^{\omega^2 z} / 7!$   
 $\cdot z^8 e^{\omega^2 z} / 8!$   
 $\cdot z^9 e^{\omega^2 z} / 9!$   
 $\cdot z^{10} e^{\omega^2 z} / 10!$   
 $\cdot z^{11} e^{\omega^2 z} / 11!$   
 $\cdot z^{12} e^{\omega^2 z} / 12!$   
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 $\cdot z^{17} e^{\omega^2 z} / 17!$   
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 $\cdot z^{23} e^{\omega^2 z} / 23!$   
 $\cdot z^{24} e^{\omega^2 z} / 24!$   
 $\cdot z^{25} e^{\omega^2 z} / 25!$   
 $\cdot z^{26} e^{\omega^2 z} / 26!$   
 $\cdot z^{27} e^{\omega^2 z} / 27!$   
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 $\cdot z^{30} e^{\omega^2 z} / 30!$   
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 $\cdot z^{34} e^{\omega^2 z} / 34!$   
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 $\cdot z^{47} e^{\omega^2 z} / 47!$   
 $\cdot z^{48} e^{\omega^2 z} / 48!$   
 $\cdot z^{49} e^{\omega^2 z} / 49!$   
 $\cdot z^{50} e^{\omega^2 z} / 50!$

$\cdot z^2 p_0, \dots$

$\omega^2 z$  (.)

$\cdot z^2 \omega^2 z$   
 $\cdot z^3 \omega^2 z$   
 $\cdot z^4 \omega^2 z$   
 $\cdot z^5 \omega^2 z$   
 $\cdot z^6 \omega^2 z$   
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 $\cdot z^9 \omega^2 z$   
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 $\cdot z^{49} \omega^2 z$   
 $\cdot z^{50} \omega^2 z$



# *DER TRAGÖDIE ERSTER TEIL*



NACHT

2 2 f e d , 2 2 f e j u  
G, p r i s o r o n t.

G:

2 ~, D. b o o l,  
L f - r e f,  
- l u n e r  
e f e r, 2 2 b u r.  
e p r i m, 1 n u l!  
- u - m a o p i;  
2 o v b, 2 o e r  
- p j ~, p l  
2, 2 - l - m  
2 y ~ i n o 2 m  
- 2, e r i o o ~!  
e - v g e z y l u.  
j u, p s o i d u,  
e, v b, j u - l h i;  
p l a n ~ o r l j l,  
b l p c a ~ 2 ~ j l m  
e l . v D ~ l e o o,  
v e v / ~, c o l b j o o,  
v e v / ~, 1 ~ l c o m,  
1 2 p j u o ~ - j u m.  
D 2, c e r y j 2 e,

21'-22' d;  
- 22' 22' - 22' 22'  
22' 22' - 22' 22'  
- 22' 22' - 22'  
/ 22' 22' 22'  
e, / 22' 22' 22'  
/ 22' 22' 22' / 22';  
e, / 22' 22' 22'  
/ 22' 22' 22';  
e, / 22' 22' 22'  
/ 22' 22' 22';  
/ 22' 22' 22';  
/ 22' 22' 22' - 22';  
- 22' 22' 22' 22'.

- 22' 22' 22' 22';  
/ 22' 22' 22';  
~ 22' 22' 22'  
~ 22' 22' 22';  
e, / 22' 22' - 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';  
/ 22' 22' 22' 22';



es! p<sub>12</sub><sup>2</sup> m m 2?  
Mog<sub>2</sub> 2<sub>1</sub>,  
C b e r 2 2 2  
K e p t z u 2!  
D f u t 2 2 2 2,  
~ 2 2 2 2, g e l e t,  
~ 2 2 2 2 f u d 2 2  
~ 2 2 2 2 2 2;  
2 2 2 2, 2 2 2 2 2 2,  
2 2 2 2 2 2,  
~ 2 2 2 2 2 2 2 2  
e . e d ! 2 2 - d !

- H e 2, 2 2 2 2 2  
J u 2 2 2 2 2 2?  
2 2 2 2 2 2 2  
2 2 2 2 2 2?  
g i 2 2 2 2 2,  
2 2 2 2 2 2 2,  
2 2 2 2 - 2 2 2  
D r y k - 2 2 2.

2 2 2 2 2 2 2 2 2  
- 2 2 2 2 2 2,  
2 2 2 2 2 2 2 2,  
2 2 2 2 2 2?  
2 2 2 2 2 2 2,

-c n p k b,  
e n, o r l l e s,  
c f l ~ r b j h r b.  
w o d, e l i n o b o r a  
i z i n j h o r n d:  
r g d, r z b, n u v;  
x d v, c r v z d!

~ z h e o s - w l e j h o r n a o.

z i c t c u b z r u  
s ~ u v r ~ z o m!  
i b h o, z i n o r o r  
~ p o v r n d' - e n v:  
c ~ z i, q f h j k,  
i v e r i u h g o,  
e n z y l l e b o,  
- z p w o r k  
i n l l' ~ n ~ o r v z p a n?  
u ~ z r v' ~ l!  
i z z o r ~ j h  
i o n e ~ n ~ z o r h.  
h h i n i, c o' c o f l:  
"z b d' / g o;  
e b' j, e z y l l!  
s, u, j, p, o  
i p j f r z n n!"

~ 491 e f 2.

0-00) j 2 p a d,  
~ 2 2 h o u t - 11!  
0 2 h o u t s - r f n  
-), 2 2 h o u t s!  
2 2 h o u t s  
S 2 2 p, 1 2 2 h o u t s,  
2 2 h o u t s - 1 1!

0 2 2 h o u t s! 1 1! ~ 2 2 h o u t s!  
C 2 2 h o u t s, 1 2 2 h o u t s!  
S 2 2 h o u t s, C 2 2 h o u t s - 1 1!  
~ 2 2 h o u t s - 1 1!  
e 2 2 h o u t s (4) 2 2 h o u t s  
1 2 2 h o u t s, 1 2 2 h o u t s, - 2 2 h o u t s - 1 1!

~ 2 2 h o u t s (e 2 2 h o u t s - 1 1) 2 2 h o u t s.

0 2 2 h o u t s (e 2 2 h o u t s - 1 1) 2 2 h o u t s!  
e 2 2 h o u t s, 1 2 2 h o u t s - 1 1!  
2 2 h o u t s - 1 1!  
2 2 h o u t s - 1 1!  
1 2 2 h o u t s, 1 2 2 h o u t s,  
1 2 2 h o u t s, 1 2 2 h o u t s,  
2 2 h o u t s - 1 1!  
- 2 2 h o u t s - 1 1!

- c... ) 3 v m  
- v... v... v...  
- a... g...  
- e... f... f...  
v... v... v...  
- f... f...  
- b... v...  
- b... e... g... v... v...  
v... v...  
v... v... v... v...  
f... f...  
- v... v... v...  
- b... v... v... v...  
e... v... e... v... - v... v... v...

- b... e... - f... e... v... v... v...  
- f... v... v... v... v... v...

v...:

c... v...?

l...: (y...)

f... v...!

v...:

e... v... v... v... v...

v... v... v... v... v...

— ~ ~ ~

6:

01, 100!

2b:

9 66, 100 1/2

2 1/2 2 1/2, 2 1/2 2 1/2;

1 1/2 1 1/2 1 1/2,

1 1/2 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2, 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2 1 1/2,

1 1/2 1 1/2 1 1/2 1 1/2

1 1/2 1 1/2 1 1/2 1 1/2,

1 1/2 1 1/2 1 1/2,

1 1/2 1 1/2 1 1/2 1 1/2

6:

0, 10, 100, 1000!

1 1/2, 1 1/2 1 1/2, 1 1/2 1 1/2!

2b:

1 1/2 1 1/2, 1 1/2 1 1/2

1 1/2 1 1/2 - 1,

cs 2-2!

$\mu - 1 - h,$

$\sim \sigma_0 r,$

$\sim \sigma_0 \sigma_0 \sigma_2,$

$\sim \sigma^0 \sigma,$

$- \mu_1 r \cdot \sigma_0 \sigma_1 \sigma_2$

$- \sigma_1 \sigma_2 \sigma_0 \sigma_1 \sigma_2$

Q:

$\sigma_1 \sigma_2 \sigma_0 \sigma_1 \sigma_2$

$\sigma_1 \sigma_2 \sigma_0 \sigma_1 \sigma_2$

2b:

$\sigma_1 \sigma_2 \sigma_0 \sigma_1 \sigma_2$

$1 \sigma_1$

$\sigma_1$

Q:  $(\sigma_1 \sigma_2 \sigma_0)$

$1 \sigma_1$

$\sigma_1 \sigma_2$

$1 \sigma_1 \sigma_2 \sigma_0$

$- 1 \sigma_1 \sigma_2$

$- \sigma_1 \sigma_2$

— Let's move it to the  
— Long 200!  
ex 6: pl  
— Long 200!

can play — Def, — a 200 (600) pl.

Ch:

pl 200 200;  
1000 — 2000?  
2000 2000 2000,  
2000 2000.  
10 — 2000,  
— 2000 2000.

6:

1000 — 2000;  
2000 2000.

Ch:

1000 — 2000 pl;  
— 1000 — 2000,  
2000 — 2000,  
2000 2000?

Q:

c r / b, r c a / b m,

c - / e - o - d

- 2 - r d m m

1 2 p - e 2 v g l.

d r - m! s d,

h - v s i z o

- b i, m a b a

o - r p e d i o!

w z i s t e n - l u,

c s e d i m g m

d a r - 2 y / 2 y g l u,

c - / s e p u.

am:

u - h r d o l u s v;

1 b - c, 2 v, c p.

Q:

d i - v e n p r!

- i m j u n k t!

- h y p e - s h o

2 c d r d ) d e u!

- e s d; c o j o n,

p - r, c s d p h?

h, - v e r, i - w a r e z,

z m r - 2 y p p r d,



$z \text{ } \rho \text{ } \sigma \text{ } \tau \text{ } \dots$   
 $\text{...}$

Ans:

$D_2 \text{ } \dots$   
 $\dots$   
 $\dots$   
 $\dots$   
 $\dots$   
 $\dots$   
 $\dots$

Q:

$e \text{ } \dots$   
 $\dots$   
 $\dots$   
 $\dots$

Ans:

$\dots$   
 $\dots$   
 $\dots$   
 $\dots$

Q:

-  $t, n, p, c!$   
-  $t, c, f, m, n$   
 $z, s, n, d, b, r, b, n.$   
 $c, o, r, \sim, z, b, y, z, b,$   
 $e, p, h, e, z, n, h, z, b,$   
 $z^2, y, \sim, y, p, n.$   
 $e, s, t, e, c, a, n, t, \sim, h, u!$   
 $z, n, d, \sim, \sim, z^2, f, w, e, s.$   
 $\sim, n, l, o, \sim, z, n, n$   
 $\sim, z, b, \sim, z, d, \sim, z, n, n$   
 $z, h, a, m, p, r, e, s, s, u, r, e,$   
 $o, b, \sim, c, a, n, p, r, e, p, a, r, e!$

an:

$\sim, i, c, h, o, z, y, z, y, \sim, z, b!$   
 $z, h, a, d, c, o, e, s, t, m, m.$

Q:

$t, c, o, n, \sim, m, z, b!$   
 $c, e, l, e, n, t, \sim, z, n, n, m, i?$   
 $i, c, h, o, c, o, e, s, t, m, d,$   
 $i, z, b, z, i, r, c, o, z, y, l, c, w,$   
 $z, c, e, r, t, i, f, i, c, a, t, e, d,$   
 $z, n, d, \sim, p, r, o, p, r, t, \sim, d, d.$   
 $i, d, \sim, z, b, \sim, i, d, i, z, z, b,$   
 $i, z, d, \sim, n, o, \sim, d, d.$

am:

1 -  $\rightarrow m \rightarrow m \text{ h} \text{ d}$ ,  
 2 -  $\rightarrow m \rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m$ ,  $\rightarrow m \text{ h} \text{ d}$ ,  
 $\rightarrow m \text{ h} \text{ d}$ .  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  $\rightarrow m \text{ h} \text{ d}$ ;  
 $\rightarrow m \text{ h} \text{ d}$ ,  $\rightarrow m \text{ h} \text{ d}$ .  
 1.

4: (—)

$\rightarrow m \text{ h} \text{ d}$ ,  $\rightarrow m \text{ h} \text{ d}$ ,  
 $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  
 -  $\rightarrow m$ ;  $\rightarrow m \text{ h} \text{ d}$ !

$\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ .  
 $\rightarrow m \text{ h} \text{ d}$ ,  
 $\rightarrow m \text{ h} \text{ d}$ .  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ .

2  $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ ,  
 2  $\rightarrow m \text{ h} \text{ d}$ .

- yfll ~ ror;  
3, 2 s 2, 5 l u rll  
2 p, en i r, j b  
-, j b, 2 r u r j p  
j r r r r, o r o b o i o!  
~ e u e l o v 2 o p l l.

1 e l, o r j 2 h v r o;  
2, 1, r l l p p i o o,  
- 1, o j 2 r r l l.  
j l r o r u r  
1 b v r - r, - 2 o;  
e j o l o v p,  
r o j o r u r o.  
a r l v i c o, r r e i  
o, p h l r r e i  
D i i m b, - y o i i e,  
o r r i o r o n.

2 r r b, c o D' 2 b q r,  
e l r h e - h e r g l ) r;  
o r j r r d p r,  
e r b e i o h - a.  
i r e r u r, r r p  
y r r i r p p r.

class) → 2 n r b,  
- 2 h y j o n e,  
- i n n u r p n,  
c o s r p y f e z.  
i o r b z p d u z y,  
e l o n s o p r z y,  
c o r d b) - f u d l - s i  
b e l) f a l n z w o n j,  
b u o z - z l, o c u - r e g n,  
o l z, c o, e d - r l;  
e y u d - r, c o l l,  
- c o e y n d, e r b e y f a u n.

~ z m z p, l l j d. - f l;  
z o n z p, i ~ f e d,  
~ i o. ) p f a ~ r e d,  
o c o s l l - d d.

· - / p, c o r z z o e  
o z e l l h n z n r  
L e, i z l o e l l h r e  
z r z n e l v o n r  
z o, l o e, c o v l l?  
o, i f z l o e l l h n o,  
e z, i z p y) f l,  
e z - e s ~ z n p o r? m  
c o h o b e y v, z n z e, z?

see m, or, d m

~ h n p - i' o' g,

2 d d w, h m.

r f u l k f u r,

2 e - m, g - v.

r p e n l, r d p o;

g - h w. r, d d r l, r.

p w o n l u n

b) n - o z u l u w

- c o e r r b l h e n v,

e g d e r l r r n - i f u

e g d r, e i l p,

e g b - r, c d r h u.

e g l - u, e' r b,

- r r r (, k s g l.

✓ o - r, d r c r o b,

o r' c r u b r j g l!

c o e w l s e r h,

w r, r - j u f.

c o r l d; - g r b,

→ c o r u r g l, e r - r f.

d c r d l' ) r u s l f u?

i h o l p h e t ~ r ~ v n!

c r' v s ~ o. h z,

o c r ~ h c e r r e r g r!

10 d, 9 p b,  
12 d n d!  
20 i n g e d - n d.  
e n k - z e n g e l t,  
e g e n l e b e n n d,  
w e r b e z d!  
10 d, - 1 - z y p e t,  
10 d, e f u p e t,  
2 b l y f u n d - d.  
10 2 2 u<sup>c</sup> 12000,  
1 p b e n d / 2 u b,  
1 s c h u n t - n n.

~ l e n g e t, s l u g e,  
2 d 2! 1 b d u,  
s n e l ~ n j e n,  
1 s c h u n t - n n.  
9 2 2 u, 9 2 u n!  
e, 1 d a n, - 1 e b e t?  
h, n - z e n n e n  
g o e n n j!  
10 d, 1 e t g o,  
~ t e m e g!  
x - j, p u j u o,  
e n o e t - z n e s d,  
~ l e n z e l j u n,  
2 j l e b j i n l e e d,





2:~:

v. per!

Le<sup>2</sup> glou,

~ , v. l. u. ,

g. v. l. u. ,

v. per.

6:

cl. h. o. u. , cl. z. u. l.

g. r. p. l. e. r. o. s. r. v. e. ?

v. d. r. e. g. u. r. u. g.

v. b. l. l. s. l. u. g. e. ?

r. z. u. , b. v. r. j. ~ l. o. p. u. ,

v. d. , r. h. o. n. b. , s. r. o. b. u. r. u. ,

p. d. r. u. s. u. e. ?

2:~:

v. p. u. u.

w. r. r. b. t. ,

r. o. l. u.

w. r. z. p. t. ;

p. h. - v. u.

v. p. u. r. ,

p. h. - v. u.

v. b. / v. u. x.

2. n:

v. yea!

v. ye,

v. ye,

2. a - ye

v. ye.

4:

co. d. r. v. m. - ye,

r. ye, v. ye!

v. ye, c. d. ye.

v. ye, c. d. ye.

v. ye, c. d. ye.

v. ye, c. d. ye,

v. ye, c. d. ye;

- v. ye, c. d. ye,

v. ye, c. d. ye.

v. ye, c. d. ye.

v. ye, c. d. ye;

v. ye - ye, c. d. ye,

- v. ye, c. d. ye;

- v. ye, c. d. ye

v. ye, c. d. ye,

- v. ye, c. d. ye

v. ye - ye.

v. ye, c. d. ye,

- v. ye, c. d. ye;

1)  $z^2$ ,  $z^3$ ,  $z^4$ ,  $z^5$ ,  
2)  $z^6$ ,  $z^7$ ,  
3)  $z^8$ ,  $z^9$ ,  $z^{10}$ ,  
4)  $z^{11}$ ,  $z^{12}$ ,  $z^{13}$ ,  $z^{14}$ ,  $z^{15}$

2.  $z^6$ :

1)  $z^6$   
2)  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  
 $z^{11}$ ,  $z^{12}$ ,  
 $z^{13}$ ,  $z^{14}$ ,  $z^{15}$   
3)  $z^6$ ,  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  $z^{11}$ ,  
 $z^{12}$ ,  $z^{13}$ ,  $z^{14}$ ,  $z^{15}$   
4)  $z^6$ ,  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  $z^{11}$ ,  
 $z^{12}$ ,  $z^{13}$ ,  $z^{14}$ ,  $z^{15}$

2.  $z^6$ :

1)  $z^6$ ,  
2)  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  
 $z^{11}$ ,  $z^{12}$ ,  
 $z^{13}$ ,  $z^{14}$ ,  $z^{15}$   
3)  $z^6$ ,  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  $z^{11}$ ,  
 $z^{12}$ ,  $z^{13}$ ,  $z^{14}$ ,  $z^{15}$   
4)  $z^6$ ,  $z^7$ ,  $z^8$ ,  
 $z^9$ ,  $z^{10}$ ,  $z^{11}$ ,  
 $z^{12}$ ,  $z^{13}$ ,  $z^{14}$ ,  $z^{15}$

Love son,  
C. S. Lewis  
N. J. Lewis,  
N. J. Lewis

# VOR DEM TOR

ggm er  $\sqrt{p} \cdot 20$ .

$\sim$  rekursiv  $f$ :

$n_2 \in \sqrt{20}$

$f$ :

$1 \cdot 2 \cdot 20 \cdot 6 \cdot 20$

$f$ :

$1 \cdot n \rightarrow D \cdot v \cdot \text{con}$ .

$\sim$  rekursiv  $f$ :

$1 \cdot 1 \cdot 1, D^2 \cdot \cos^2 l / 2$ .

$f$ :

$\cdot \text{con} \cdot 2 / 2$ .

$f$ :

$\cos 4 \cdot \text{er} \cdot 9?$

$\sim$   $h$ :

$1 \cdot 2 \cdot 2 \sim h$ .

W:

Du...  
...  
...

W:

...  
...  
...

ordred:

...  
...

e:

...  
...

W:

...  
...  
...  
...  
...

e:

...  
...  
...

je:

u, o, am omf!  
x le, ~! r v o b u  
~ frou, ~ l p e l u,  
- v e r g, e ~ z p.

wred:

es b v ~, z u n d e!  
: c o d - p:  
p o f ~ b, e r b z,  
- h o r z u n d!

f je: (y d)

l - p e l e d t n u f,  
b z n d e n f n,  
' o : z n d u a;  
v o r z e d o p n.  
b n n g u f  
- n t e d n e z.

d:

x le, ~! v l m z u l.  
p e l e r e c d l / m.  
, x e, i o e n m o l d  
' o n d n e b n b.

un:

~; f/v; ~ u r b!  
~; e; ~; ~ n e b.  
- l, g d c o h e r?  
~ l e n g t h?  
p h i o n o m,  
- f e r s t s.

un: (6)

~ n e m, ~ g e n k,  
- c y f - u m s,  
u - s, v p p e,  
- o - v e l z e n!  
b o r d m o m e n!  
~ l, ~ n v.  
~ n, ~ e r g e l u n,  
~ l e p ~ n t h.

i un:

i u c o, v ~ o n - l u m  
o ~ p l i n - r a f f,  
c a t, c, i m,  
i l e n s e p p e.  
u g r a b d, h o r z e n e  
- o ~ b o z e, u g l z;  
e n t w o r t e l s D<sub>2</sub>,  
- o n k - l e g.



in un:

in un, h! - o b o p p i:  
o r r), i n l p f,  
u e o l r n i;  
e - j z u d i r s.

✓: (j ~ unred)

! o p f! e z r h u t!  
a o) / z r d h i m  
- / - f j! - j z!  
- c o r o f, e o p, c. j g h.

unred:

m, p, i, r, v, n,  
l l d h l i j m;  
o p v p z o n t r i o n l  
~ n l l p f r o s m

i:

v j t b r r r f;  
o l l o, l u n u n i;  
i o v v, i b r s,  
- v - / u m.

o-llh:

u-n-l-z-z

z-u-j-p;

z-h-l-f-p

z-u-o

z-l-p-u!

n-i-e-p;

z-i-i!

-l-z

o-r-c-h;

o-j-l-e;

-j-l-h.

e-i-g-h!

e-i-n!

z-h-u-n

z-o-j-n.

n-i-e-p;

z-i-i!

-o-llh

p-e-s.

llh-om.

llh:

l-o-l-l-z-f-r-o

p-o-l-l-z-e-h, u-n-u;

Rechtshilfe;  
Tat, 20 ft,  
ft) 22 Wz p.  
Se Poci, lpc,  
— alle ja nicht so  
2 fls, we l;  
u, o, ee, n c°,  
s. d) als - fu,  
so - b l h u u;  
d ~ l u l p u  
o ~ d f r u p d.  
n d r, l o z z  
D - g d p p z.  
o 2 z u b d l  
d ~ l p d z.  
l e o d ) z z - m.  
b l u u, s p z, ° z u,  
e b 2 d s p e,  
o z u z o e z p h u,  
o z u u o - p r o v e,  
o 2 l s t u - d h u,  
o f o l y e u r,  
o i n t h u u u u l  
z b u o l p l.  
p - ; o ! o u o e ) , u  
p, z v - l e u p p t,  
o b o, z l - u

— wie für die Welt,  
— 4/6 von 4er  
dies) 4/6 von  
65° wohnen  
wenn 5/6 von 4er  
12/27° erbe 1/2;  
21° Linsen 2/4;  
für 1/20 - m:  
20, 12/27, 2 erbe 1/2!

am:

2/3, 2/4, 1/2  
im - 1/2;  
2/3, 1/2, 1/2, 1/2;  
ein halbes 2/4;  
ellen, für, 1/2  
· v - 2/4;  
6/12/27/27/27  
- möle. möp.

am 1/2.

4/6 - p.

2/3 (1/2) 1/2;  
2/4, 1/2 - 1/2;  
2/4, 1/2;  
2/4, 1/2 - 1/2;

- 20 h/20 L.

h2! h2!

h2 0! 2 0! 2!

- r' l' u n.

√ 26' ) 2,

es p' ~ ~ r' h ~

2 0' ~ ~ u;

, h' o' ~ ~ , ) 2

- d' : ~ , e l' c , e 2!

h2! h2!

h2 0! 2 0! 2!

→ | - d' h n!

∂ 2 - l' 2' 2 ~ o r' 0;

6 h/2 6, 6 h/2 ~ ~ ;

- ~ ~ l' u n.

6 h' ~ ~ , 6 h' ~ ~

- ~ ~ n' e ~ ~ z ~ ~ ,

h2! h2!

h2 0! 2 0! 2!

- d' ~ ~ u n.

- 4 v' d' | - h'

o r' h' 2 / o 4

u n - d' u n!

√ 2 / 6 d' u o ,

-f. rez. - ✓:

h! h!

h o! z o! z!

f - leen.

✓ 4:

z e, e z z f,

e r z z / g,

- f o o L o p r,

o ~ - z f d, u.

- ~ u d ~ z d r,

~ r z h e L h f,

z h r j - o f r,

e, l ~ ~ a b f g:

z f L h, i, z,

~ ~ m p t.

4:

z r ~ h z o h

z e' z e z - e r.

e L o a d ) h r o o r.

✓ 4:

h r, i o c p,

e r a l z n g l;

z r, ~ r o d z z

~kom 4 p!  
~wh g 100 x  
~ 2 h 2 p  
~ 20 b 10,  
o: 2 p p.  
D 100 r, ~ h 2,  
r 2 h 10 m 2,  
~wh 2 h 1,  
r 2 h 10 p 2,  
y 100 r 2 h 1,  
2 h 2 h 2 h 1.

~:

p 2 h 10 r,  
e: 2 h 2 h 1!

Q:

~ h 100 g p,  
2 h 1 - 2 h 1.

~ 200 m 1.

ch:

D ~ 100 e, + 200,  
~ 100 r 2!  
~ 200, a 100 m  
2 ~ 100 r!

~ In j t o r m e n ,  
~ t e n t - e n t - d ,  
i b e g i n t ; u p c d .  
e y r o , z u z g r o b ,  
i u p l o n z i z s ;  
- u p l l , - u p j , i n t ,  
o n r e l u o .

Q:

~ u p j t a s j l a f ,  
z ~ i s i o e j b .  
z o o , t h e n e n  
- e t p r u n - z l b .  
~ z h y s , p a n l b ,  
z l u , o g e , z e n  
d i e r e l u b  
z e n o z o j g u .  
~ u p l e l v o n o z .  
~ z e z z e n n o s ;  
o u p l a - o n  
z o z o u p o !  
z h a n e n n e n ,  
~ x i n t - n z i n o v o  
z e l , t o s o c o ,  
z h a n z o s ;  
~ z p f l e t ,  
z i z z y n t z o ,



- Dpa yd,

e 82 q 0.

ecce ~ v h ~ m l u,

R. 2 u' s d,

- v e e 2 h h h h

o r l y p d 20 e p d.

y e s 2 u h h

i h ~ m p 20,

x c i y s, i c m t y h,

- s u e h: c p o i

- 2 1 2 2 e f m m

2 q u m, q u m

c y p s, c b p d.

1 2 6 ~ h ~ h e p m i

6 c m t 2, 1 2 0 u m,

e m, h 2 e s d.

om:

a s l r s e r m!

4 l ~ h h u p,

1 m d, 1 m p s h,

p o p - c m t y h?

c e y s h h e m h h,

- ' e y m s p q p m;

c e y s m, c o f s d,

- r e o s j 2 h e y p m.

Q:

—  $v, a, D, h, n,$   
—  $v, n, N, g, D!$   
—  $con / c, e, n, U, n,$   
—  $con / c, n, U, i$   
—  $D, O, J, q, f, e, j, n, o, y$   
—  $p, l, h, o, /, n, n, n!$   
—  $M, o, z, v, e, o, n, z, y$   
—  $i, h, y, n, i, n, z, h, y, n, n,$   
—  $b, v, l, - c, l, i, n, i, s, d,$   
—  $e, n, l, b, z, - l, e, t, n, s, o, n,$   
—  $e, n, l, b, z, v, l, s, e, n, z, d$   
—  $r, D, - m, D, j, f, u!$   
—  $i, o, s, i, p, o, n, v, e, f,$   
—  $i, g, e, d, j, z, n, b, o,$   
—  $y, p, e, z, z, i, n, s, t, h, e, o, l,$   
—  $\sim b, v, l, z, e, i, n, f, u, b, o,$   
—  $l, a, t, e, n, z, w, s, t, h, e$   
—  $\sim d, e, w, z, e, n, o, p, h, i$   
—  $z, h, e, n, ), z, e, n, t, h, e$   
—  $\sim f, l, z, n, s,$   
—  $d, z, l, z, v, r, e, o, y, p, o, n;$   
—  $e, n, i, n, z, h, e, d,$   
—  $i, s, t, r, i, c, t, o, n, s, y, h, e, n,$   
—  $v, \sim n, - z, v, i, n, d,$   
—  $\sim z, h, e, v, - l, v, i, c, e,$   
—  $\sim z, h, e, v, i, z, b, a, s, e,$

Dij 26/2011 - 1  
m m (m) p m  
D. - ter - p m  
e o b a s - a d m,  
c s t, R e z u m m,  
r z w e l, a d m;  
c s j h l l s s z  
' e r a p t j d,  
- s l l, s o n  
' m p d' z u p d.

Ch:

1 2 6 a l l b u s g e w  
d 2 k 2, 2 n g e i  
m o j) l n c e - l e m o t;  
o f z e l l p c, n l w e.  
c s k m j, 2 6 l e n  
S D J D, S U J U t  
e r c o n l l z e - j z  
~ o p m c m e z z,  
- D! h u n d e r z ~ o p l c m m,  
- g t' z y z e j e r r.

U:

e y b e r - o ~ k o u b,  
- m n ~ h m m!  
j o n c m, D! z z U,

1. — ) S' i k h u ;  
 1. — 2, 2 e u s o f,  
 ) n, d' z n e u s u ;  
 1. i' d' p' e' ) S e f  
 ) ~ b e z z e n.  
 — u' z b' i' d',  
 1. j r e - d' o z y e a u  
 — f u r e' z z e i n e f  
 — b' d' o r j ~ n o, w' e' m!  
 h, c u ~ m e d' z,  
 — n. v' z h e r e!  
 v' d' z i n b' e' p e r,  
 l e z ~ n e n d o.

o n:

u l l, c a n t z,  
 1. f r e ) r e d' r o s t,  
 2. u g e b e l t' h,  
 S e n r e z, u'.  
 S e n e r d' z h' z e p  
 s d' z, z e y f p u i  
 S e n e p, h u e, b z,  
 — ~ n ) S e n e i  
 c o' m o' d' y t,  
 1. z y z e n z' z h  
 — u' c b ~ z u, i' b' b',  
 z e d' - l e - z j o h i

62 ~ m, jper l, pd,  
p h m, c 65 m m;  
6 per c s r) pd,  
- for n d, c 6 m.  
D m r! h j, d,  
i d r! i n l!  
n we j r n d e 2. m  
c o f b e s — w b y / 2 e?  
c o n d i t i o n s — d h?

Q:

b e s ~ z y z e p o s - g l. f h?

an:

i o r ~ z, / d o y - v.

Q:

M r d i l c o z t e r?

an:

l ~ e, i s o c o  
j s p ~ o m d.

Q:

u n b e, o z c z g n o  
- 2 5 2 - m ~ s h?  
- 1 1, — p ~ l z f e

50 le 2k.

an:

10290 ~ 246i

- 10000 ~ 246i.

6:

10290, e, 10000 ~ 246i

10000 ~ 246i.

an:

10000 - 10000 ~ 246i,

c, 10000, 10000.

6:

10000, 10000.

an:

10000 ~ 246i - 10000.

10000 - 10000, 10000.

10000 ~ 246i.

6:

10000 ~ 246i.

am:

$i \sim \text{Cen} \text{Dr.}$   
 $e, f, b, g, \dots \text{C}^1, 5;$   
 $e, f, b, r, \dots, f, b, r, 2, 5;$   
 $\sim \text{C}^0, 1, \dots, \text{C}^1;$   
 $\text{Der } f_{n+1} \text{ C}^0 \text{ f}^n.$

U:

$e, f, b, r, \dots, \text{C}^1, g$   
 $f, r, b, \dots, \text{C}^1, b.$

am:

$2, 2e, \text{C}^1, 2, f, n,$   
 $f, b \sim \text{C}^0, 2, f, n.$   
 $f, e, 2, d, \text{C}^1, 2, f, n,$   
 $\dots, f, e, \text{C}^1, n.$

$b, n, 2, e, f, n.$

STUDIENZIMMER

U<sup>2</sup> C<sub>2</sub> h.c.

U:

$\psi \rightarrow \psi e^{-i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$   
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$\psi \rightarrow \psi e^{i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$   
 $\psi \rightarrow \psi e^{i\alpha}$



und  $\beta \in \mathbb{R}^n$ ,  
-  $2\beta \in \mathbb{R}^n$ ,  
und  $\gamma \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ .

$\alpha, \beta \in \mathbb{R}^n$ ,  
-  $\beta \in \mathbb{R}^n$ ,  
-  $\beta \in \mathbb{R}^n$ .

$\alpha \in \mathbb{R}^n$ ,  $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
-  $\beta \in \mathbb{R}^n$ .

$\alpha \in \mathbb{R}^n$ ,  $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ .

$\alpha \in \mathbb{R}^n$ ,  $\beta \in \mathbb{R}^n$ ,  
-  $\beta \in \mathbb{R}^n$ .

$\alpha \in \mathbb{R}^n$ ,  $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ ,  
 $\beta \in \mathbb{R}^n$ .

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 $\beta \in \mathbb{R}^n$ .

22. 10. 1918,

1. 2. 1918 - 1919.

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1918. 10. 22. 1918.

1918. 10. 22. 1918.

1918. 10. 22. 1918.

in: h, 2 l u d.  
u c o w 1 o 2!  
n e n m p p 2!  
- p u i b o m / ?  
o' r e e n - l!  
- w ) 2 p d,  
e . l - o 2 c o p d!  
c D ~ p d U l 1 1 0 2!  
g o . o ~ n l e o,  
2 l e n n , f u a p o.  
- ! e y b v p o!  
l 2 2 d 2 e n l y  
- o ~ r o p o 2 y.

2 b : ( 5 ^ 2 n )  
m p h i n !  
u u 2 o , l a r n n !  
o r o - l o ,  
p h ~ d 2 e n d o .  
u w l l !  
g u 2 , g u e ,  
s - r ,  
- , o ) - q l l .  
l r p n p ,  
b r / o p !  
e n - u t e n  
g e / p e n .

Q:

$\frac{1}{2} \mu m^2 v$ ,

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ .

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$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ !

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ !

$\frac{1}{2} \mu v^2$ ,

$\frac{1}{2} \mu v^2$ !

$\frac{1}{2} \mu v^2 - \frac{1}{2} \mu v^2 \sim \frac{1}{2} \mu v^2$ !

no'k  
f/2<sup>2</sup>W.  
-Huy-2d v<sub>i</sub>  
12 R 2/0 p  
e° v<sub>2</sub> m  
f m y m.

6 e<sub>1</sub> p  
~ W 2 m?  
- 0 9 f 2  
2 6) L m  
' z y z m!

z z' - s z L m m.  
x h o c o!  
n e r o!  
~ s f o',  
e f L',  
p e d p o',  
W e f L'?

z' ~ h p',  
z' - o ~ d  
~ n p v b' m,  
- j n f o'.  
f z' / e v z!  
z d j o z b o'!

eg, e1 nos.

100 22 22 22!

cut!

evolve!

cut!

100 22 22 22!

df lo, n, l, p, o - l, g, o, 2<sup>2</sup> h 2.

df lo.

100 22 22 22 22?

Q:

100 22 22 22!

~ l, o, g, i, n, o, o, d, v, d.

df lo.

100 22 22 22!

100 22 22 22.

Q:

and y d?

df lo.

100 22 22 22

l, o, g, i, n, o, o, d, v, d,

; c, d, u, l, l, e, r, g,



Q:

$g \sim \rho \sim \nu, -g \sim \rho \sim \nu?$

df Co.

$g \sim \rho \sim \nu, v.$

c)  $\rho \sim \nu, \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu.$

$\rho \sim \nu \sim \rho \sim \nu, \rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu,$

$\rho \sim \nu \sim \rho \sim \nu,$

$\rho \sim \nu \sim \rho \sim \nu.$

Q:

$\rho \sim \nu \sim \rho \sim \nu!$

$\rho \sim \nu \sim \rho \sim \nu$

$\rho \sim \nu \sim \rho \sim \nu.$

df Co.

$\rho \sim \nu \sim \rho \sim \nu.$

$\rho \sim \nu \sim \rho \sim \nu,$

$\rho \sim \nu \sim \rho \sim \nu$





Q:

121, 122, 123.  
124, 125, 126.  
127, 128, 129.  
130, 131, 132,  
~ 133, 134.

135.

136, 137, 138,  
139, 140, 141,  
142, 143, 144.

Q:

145, 146, 147.  
148, 149, 150, 151,  
152, 153, 154, 155,  
156, 157, 158.

159.

160, 161, 162,  
163, 164, 165,  
166, 167, 168.

Q:

169, 170, 171,  
172, 173, 174,  
175, 176, 177.

վրէժ:

Վերստ 1, 0, 2 փո

1, 0 փո

Վերստ 1, 0<sup>2</sup> 2

Գ:

Չարեցի/եհմ?

վրէժ:

՛: ~ փո Վերստ 1:

Ե 62 քմ, Ե 20 620.

Ե 5 քմ, Ե քմ<sup>2</sup> 1 քմ.

Գ:

1, 2 քմ 1 քմ?

Ե 10, 2, Ե 10) ~ Ե,

- Ե 1, 2 քմ, 1 քմ, քմ?

վրէժ:

Ե քմ 1, Ե քմ ~ քմ,

Ե քմ 1 քմ.

Չարեցի ~ քմ,

- քմ քմ քմ

Չարեցի 1, 2 քմ - քմ,

Ե քմ քմ քմ.

Q:

— u d J ~ n w,  
v d z z j o n.

df lo.

f o v d ! r r u e x;  
e r d e n D u h n.

Q:

r z o / d f d,  
b e g d b o m p n.  
~ u l z d', a r z d!  
f r / u e j f z e h n.

df lo.

c e o u, — u r D u,  
e r / p o f z / u e;  
d z u e n o, e, f  
r z n d o o r j d n.

Q:

r o - m, e f o e l;  
— e i n d f o r !

df lo.

e f, z u h o l e o n  
z o f e z p n

o<sub>2</sub>ho  
coo, p<sup>r</sup> 2b<sup>r</sup>,  
1, 2, 3, 4, 5, 6, 7,  
2/ ~ no p<sup>r</sup>.  
Den p<sup>r</sup>) y<sup>r</sup>,  
e'ger n<sup>r</sup> p<sup>r</sup>,  
-e' p<sup>r</sup>) e' p<sup>r</sup>.  
w<sup>r</sup> 1, 2, 3,  
w<sup>r</sup> 2, 3, 4!

2b:

g<sup>r</sup>, 1, 2, 3  
c<sup>r</sup>, 2, 3!  
✓ g<sup>r</sup> 2  
L<sup>r</sup>, 4  
n<sup>r</sup> 2!  
c<sup>r</sup>, 1, 2, 3  
c<sup>r</sup>, 2, 3!  
g<sup>r</sup>, 1, 2, 3  
v<sup>r</sup>, 1, 2  
g<sup>r</sup>, 1, 2  
2b<sup>r</sup>, 1, 2  
g<sup>r</sup>, 1, 2, 3  
g<sup>r</sup>, 1, 2  
o<sup>r</sup>, 1, 2  
L<sup>r</sup>, 1, 2, 3

-`pe

lwe va

en, sa,

en, a,

c) b m,

h, z p m,

ve n.

u u!

f b m!

b h

g f m

ve n,

g f m

z v c,

v o p m,

e f,

o, z z

z) m,

u j o n

j o p

h e n.

- e p

g h) c,

b m o,

b m ~ z

ve n m,

i) s c

2000h;

C 1, 2

hpe 2m,

s ~ 1

hpe 2m,

1) R L m

e ff 2i

~ R ~ m

s, 1, 2, 2,

R g m

s, 1, 0, 1,

R g m;

e / m,

e / m

R g m;

o m 2e

elf lo.

zll! — R, r. p. p. p. h!

r ~ L ~ p. p.!

l 9 ~ p. p. 1, 2 ~ r. p.

e, b, 2 / ~ m, ~ L. l. p. p.!

r ~ r ~ 2 0 h. p. p.,

w. r ~ r ~ r. o. c. o.;

2 9 ~ p. p. p. p. p.,

w. l. 1 ~ o. p. p.

1 ~ r ~ 1, 1, 2, 2,

g p / a - r - / d 2 m

' a ' h - ' 2 0

' b 2, l g, c p, - 0

W o, d 2 / o n

- 4 2 / w n,

- 0, 6 2 - u d m

e n d e g 2 p 2 0!

- h o c n!, g f, i d w t,

b o d y m n i n t.

2 ~ 0, - b p m

n, l 6, L 2 l, l 5 E o.

6: (d h e)

v i e n n e o l t n!

g e i - ' 2 6 / 2 m

e v ~ h ~ l 6 p n,

- e ~ 6 e v p h!



STUDIERZIMMER

U. d. f. Co.

U:

- r 2! a - v E Co?

U. d. f. Co.

r 10.

U:

2!

U. d. f. Co.

erb - e r o n.

U:

2 e!

U. d. f. Co.

- f u d e v.

r<sup>2</sup>, 2 l, 1 M<sub>i</sub>

e r o, b, j, M<sub>i</sub>

v i s e h l u r,

z n, z a b d r e,

e r u b l y n o e,

z u l e r s<sup>2</sup> z,

2 2 2 2, 2 2 2 2,  
- 2 2 2 2, 2 2 2 2,  
2 2 2 2 2 2 2 2;  
2 2 2 2, 2 2 2 2,  
2 2 2 2, 2 2 2 2.

6:

2 2 2 2 2 2 2 2  
2 2 2 2 2 2 2 2  
2 2 2 2, 2 2 2 2,  
2 2 2 2 2 2 2 2.  
2 2 2 2 2 2 2 2?  
2 2 2 2! 2 2 2!  
2 2 2 2,  
2 2 2 2 2 2,  
2 2 2 2 2 2,  
2 2 2 2 2 2.  
2 2 2 2 2 2 2 2,  
2 2 2 2 2 2 2 2,  
2 2 2 2, 2 2 2 2  
2 2 2 2 2 2, 2 2 2 2,  
2 2 2 2 2 2  
2 2 2 2 2 2 2 2,  
2 2 2 2 2 2 2 2  
2 2 2 2 2 2 2 2.  
2 2 2 2 2 2 2 2,  
2 2 2 2 2 2 2 2

Derin b g p t,  
D a o e l e j n.  
v r, v r b o c t,  
n k z n o l m;  
v s e n r o l l t,  
v n D o t i o n;  
v v e e o s b,  
v l e o d, e n v s b.

df lo.

- d v l e n y n i n s b.

Q:

- o l, v, r b o n y  
v k m n n r i g l o e t,  
v, n g a b t y,  
v s o r d o n n b e t!  
v c, v o z z v b o l l  
y p t, s o l e a p u n!

df lo.

- d o b o e n l u o l l,  
v l u n l, l e p h e n i

Q:

e p u n, z i; e b.

df Co.

df v, 1; df · v ab.

6:

c<sup>2</sup> p p

~ o u n l v p,

~ b s r e p

2 n r l s y d,

— b, r, c o, o

2 n = - 2 c n r p,

- b z r h z

2 w e = - z h n l l w!

M e, z z z z,

c r, z b) b r b!

M e w e i g z,

) ~ z b w!

M, c o s z l w z d

o v i n e s h!

M, c o s o s z z d,

s c r - r e, s n l - b!

M v, c z z p

· s j n n d,

c, j v b<sup>n</sup> z p

, C d s p l d!

b - z w o l l h!

b l r z b s o z e!

b - z h i! b<sup>2</sup> z w,

- 0 - en' fe!

26, 2: (flur)

os! os!

egobff

1, 2 ~ d,

2 200 6;

6 gff, 6 fl!

~ 200 10 6 gff!

r h

1, 2 ~ 10 9 2 4,

- r h

8, 1 ~ 10 2 4.

200

1000,

200

4 6 E,

2 2 6 4 6 5!

~ 2 2 6

ur,

2 2 6,

- ~ 2 2

Lines!

2 2 6.

9 2, ~ 2

f ~ 2.

2, 0/6 - m  
h, b, m!  
z, d, c,  
o' - a  
c - o - o' f m,  
- m b d m.

2, 5, 2 e h j p,  
; o - 2, o a m b;  
j b p b d b,  
e e - 2 j 2 j b.  
d - b / p  
d b e h j f o.  
1 v - 5 ~ 2 o;  
d - e, 2 v - l,  
e p e m m,  
- 1 v m b m,  
e j o, s' f.  
1 v e p,  
- d, e, b,  
v, e, o, v, e, m!

6:

- c o', e m e b m?

df. 60.

gogj - n b.

U:

m, m! - l - n b

- 4/1 - 220 -

co n h n f.

p, w, e, z, o;

~ 2 on W h 10 2.

df. 60.

i - p, j, e, o, d, u, w;

sen on / 5 - / u;

cr 15 du E l u;

- ° g v e z 2 L

U:

e du n p a n n u;

z d e d x d j h u;

i, i' n e D y z i.

o x r e b u r l e u;

- x o n z u r u l e u;

n, i, p, h, l, m, z, e u;

e u, co - - n, p u.

e f - i, i' c ^ 2 u;

r u n d n l l 20 - u,

- r - D i l u d u

~ u a ~ n.

alg Co.

z r b ~ e; m.

w e d; e; z r m,

z k e z n d s,

m e; c o d m u p s.

Q:

c o ~ e n l e m?

c e ~ u p z b, z o z z f u,

f e o z l l b?

d z e f o, l o t, z

e y ~ o z e, e ~ b,

E b z s, o z x f u,

~ p, l z n s p l,

~ u d, e ~ z l f

z ~ u j z ~ d u) w e,

z ~ z ~ z m b,

z o ~ m, g e n?

f r v, b, l, o z u b l,

- l e, i) n ~ s d u!

alg Co.

~ z d h j l d l,

z z p h ~ i o n.

d, m l e, f ~ d d z,



c102223022

6:

c102223022  
- 22222  
e102223022  
e102223022  
e102223022  
e102223022  
e102223022

df co.

✓!

6:

- 22222  
c102223022  
e102223022  
e102223022  
e102223022  
e102223022  
e102223022  
e102223022  
e102223022

df Co.

un - c, r Co / no.

U:

ey ey ~ co li;

12 v / li no.

o, v, v, v, v,

re, co h, - co.

df Co.

i, c, z, z, v, v, z,

o, v, v, v, v,

→ ...

u, v ~ Co

U:

D Co ...

o, y, z, ...

p / p, e, ...

s, d, ...

v, l, d, ...

- v, ...

d, ...

a, ...

u, ...

~ ...

~ ...

in  $\mathbb{R}^2$ ,  $\mathbb{R}^3$  ...  
euklidischer,  
orthogonalen.  
Koordinaten?  
y, w, ...  
 $\circ, \mathbb{R}, \mathbb{C}, \dots$   
Integral.

U:  $\mathbb{R}^2$ .

Ordnung  
 $\rightarrow$  ...  
...  
...  
...

U:

...  
...

U:  $\mathbb{R}^2$ .

...  
...

U:

$\rightarrow$  ...  
...  
...  
...  
...

202600000,  
v 000, 000  
0000000  
v 000 000.  
0000000  
10000000!  
20000000  
10000000!  
100000000,  
100000000!  
100000000,  
100000000!  
100000000,  
100000000!  
100000000,  
100000000!

100000000.

100000000.  
100000000,  
100000000,  
100000000,  
100000000,  
100000000!

100000000.

100000000,  
100000000,  
100000000,  
100000000;

° ~ z p m l l ) p o ,  
 - c o ~ z p m l l ;  
 - 1 2 2 ~ m b p o ,  
 2 2 2 ~ b e z b ' - d l 2 l ,  
 1 c - c o s 2 ~ b o 2 l ,  
 - 2 ~ m b j m b x ~ ,  
 - , o b b , a r e D , p ~ .

ulj lo.

- 2 v , ~ l t b e l v  
 ~ 2 2 ~ p o m  
 e s ~ o r l / u  
 ~ 2 2 ~ s ~ t ~ e t !  
 2 2 ~ , 2 2 ~  
 . ~ l ~ 2 1 p l !  
 \ ( b e 1 ) ~ 2 ~ 2 ~ 2 ~  
 1 2 ~ , 2 ~ b o ~ p l ,  
 - 1 4 ~ p n - l .

6:

~ 1 !

ulj lo.

e . b ) 2 ~ !  
 2 ~ ~ 2 ~ v ~ v :  
 1 4 ~ ~ p , ~ n ~ d ~ n .  
 1 e l , 1 b ~ j ~ u ~ .

o p w r r l u,  
b r n z p u g h,  
- e l e t h

s u n g z l u,

o e u,

o x p o z u,

o p u o l p u,

o n e o l i u.

b r s e p w o l u,

z b i - r o j u u,

- r r c u n t r o t h u,

D r l u j u.

z b i r u n u,

x r u n v o o o u.

6:

c o v i e, c - / z z i,

z u p p u n j u u,

D i j - o e u?

u f l o.

e b a r e u c o e b.

o g e l u n s t u u u,

o g e l o s u s s o n,

e u d e r u, c o e b.

4:

$\sim \beta, \mu \sim \gamma$   
 $\sim \nu \mu \beta, \nu \mu \beta,$   
 $- \sigma, \nu \mu \beta,$   
 $\beta \mu \nu \sim \nu \mu \beta,$   
 $\sim \nu \mu \beta \sim \nu \mu \beta,$   
 $\nu^2 \mu \beta \sim \nu \mu \beta.$

45:

$\sim \mu \beta, \nu \mu \beta,$   
 $\sigma \mu \beta \mu \beta,$   
 $\nu \mu \beta \mu \beta,$   
 $\nu \mu \beta \mu \beta.$   
 $\sigma \mu \beta \mu \beta - \mu \beta$   
 $- \mu \beta - \mu \beta, \nu \mu \beta,$   
 $\beta \mu \nu, \sigma \mu \beta \mu \beta,$   
 $\nu \mu \beta \mu \beta?$   
 $\sigma \mu \beta \mu \beta \mu \beta,$   
 $\nu \mu \beta \mu \beta \mu \beta?$   
 $\nu \mu \beta - \mu \beta \sim \mu \beta \mu \beta,$   
 $\sigma \mu \beta \mu \beta \mu \beta.$   
 $\mu \beta \mu \beta \mu \beta \mu \beta,$   
 $- \mu \beta \mu \beta \mu \beta \mu \beta!$   
 $\nu \mu \beta - \mu \beta \sim \mu \beta \mu \beta,$   
 $\sigma \mu \beta \mu \beta \mu \beta$   
 $\mu \beta \mu \beta \mu \beta \mu \beta \mu \beta,$   
 $- \mu \beta \mu \beta \mu \beta \mu \beta.$

Q:

obere?

df Co.

12 ml.

coel ~ w/d?

coebel ~ mbr,

)-, h ~ m?

o e e<sup>2</sup> ~ m d c!

co - e p e f s j q m?

e b, co e d n,

e b e ~ u d / m.

2 2 ~ s<sup>2</sup> m!

Q:

v b / 2 r, r / o z.

df Co.

\ r m e d r,

\ e b / f b r.

r, r v e ~ - v f;

12 v 20 v ~ b f.

\ r e i ) r.



~ 40 - 200!  
1. 12 - ~ 1/2 1/2;  
2. 12 1/2 1/2 1/2!

1/1.

1/1. (2/1 1/1 1/1)

1. 12 - 1/2 - 1/2,  
2. 1/2 1/2 1/2,  
3. 1/2 1/2 - 1/2 1/2  
1/2 1/2 1/2 1/2,  
- 1/2 1/2 1/2 1/2  
1/2 1/2 1/2 1/2,  
1/2 1/2 1/2 1/2,  
- 1/2 1/2  
1/2 1/2 1/2.  
~ 1/2 1/2 1/2 1/2,  
1/2 1/2 1/2 1/2,  
1/2 1/2 1/2 1/2,  
- 1/2 1/2 1/2 1/2,  
1/2 1/2 1/2 1/2!

~ 1/2 1/2.

gen:

1. v. d. r. f. f.,  
- r. r. m.,  
- r. f. f. - j. m.,  
- v. r. l. l. m.

alg. lo.

- v. l. l. v. o. l.  
r. o. r. o. i. v.  
o. r. o. d. j. y. h. ?

gen:

1. v. f., v. f. v. v. v.  
1. r. r. v. r. v. v.  
- e. r. v. - p. v. v.  
v. v. v. v. v. v. v.  
v. v. v. v. v. v. v.

alg. lo.

e. r. v. v. v. v.

gen:

v. l. l., v. l. j. e. l.  
v. r. v. v., v. r. v. v.  
- v. r. v. v. v.  
i. v. v. v. v.  
v. o. l. l. v., v. v. v.

$-z \sim \sigma, s \sim \omega,$   
 $M \sim 2, \sigma^2 \sim \omega.$

alg. Co.

$e \sim \sigma \rightarrow s \sim \omega,$   
 $- \sigma \sim \sigma^2 \sim \omega,$   
 $1/2 \sigma \sim \sigma^2 \sim \omega,$   
 $\partial \omega \sim \sigma \rightarrow \omega.$   
 $- \sigma \sim \sigma^2 \sim \omega,$   
 $2 \sigma \sim \sigma^2 \sim \omega.$

gr:

$\sim \sigma^2 \sim \omega,$   
 $\partial \sigma \sim \sigma, \sigma \sim \omega?$

alg. Co.

$\omega \sim \sigma, \sigma \sim \omega,$   
 $\omega \sim \sigma \sim \omega.$

gr:

$1 \sim \sigma \sim \omega,$   
 $- \sigma \sim \omega, \omega \sim \sigma,$   
 $- \sigma^2 \sim \omega,$   
 $1 \sim \sigma \sim \omega.$



c ~ Hse l e h,  
i, g h ~ x, z, x, z o,  
i, l e y o z b o,  
~ p h e u e z z h.  
- b o l; H z  
- u b s, - v b \_ o:  
e d c \_ , e f \_ ,  
- e e e - h \_ ;  
- c e d - f | c ;  
e e - h c ~ m u.  
e l o, z e ~ n t,  
z u ~ a n t.  
a ~ c o u o a m u - d f u,  
d d ~ z b z o j l u,  
e z, i, l ~ z o x e,  
l, u! ~ e z b v e.  
D o ~ a ~ u ~ i, u,  
g u m b - c o l o.

g u:

~ s l u m y g u.

u f l o.

e' ~ h o g u o m u,  
c r ~ u l ~ e o e g u  
- p u d ~ o .

gr:

$v^2 \sim \epsilon_1$

$v \sim v \sim v \sim v$

alg. Co.

$D_2 \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

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$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

gr:

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

$v \sim v \sim v \sim v$

alg. Co.

$\partial \mathcal{C} \cup \text{---} \text{---} \text{---}$

gr:

$\int \text{---} \text{---} \text{---} \text{---} \text{---}$

alg. Co.

$\text{---} \text{---} \text{---} \text{---} \text{---}$

$\text{---} \text{---} \text{---} \text{---} \text{---}$

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$\text{---} \text{---} \text{---} \text{---} \text{---}$

gr:

$\text{---} \text{---} \text{---} \text{---} \text{---}$

$\text{---} \text{---} \text{---} \text{---} \text{---}$

$\text{---} \text{---} \text{---} \text{---} \text{---}$

alg. Co.

$\text{---} \text{---} \text{---} \text{---} \text{---}$

$\text{---} \text{---} \text{---} \text{---} \text{---}$

$\text{---} \text{---} \text{---} \text{---} \text{---}$

- Der Teufel,  
- Singsprüche.  
auf den, er ...  
- ...  
...  
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zu:

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zu:

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$a \sim b \rightarrow a \rightarrow b$   
 $b \rightarrow a \rightarrow b$

def. (1)

$1 \in \mathbb{N} \sim \mathbb{N}$

$2 \in \mathbb{N} \sim \mathbb{N}$

(1)

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

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$1 \in \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

$1 \in \mathbb{N} \sim \mathbb{N}$

1.  $\sim$   $\text{A} \rightarrow \text{B}$   
2.  $\sim$   $\text{A} \rightarrow \text{B}$   
3.  $\text{A} \rightarrow \text{B}$   
4.  $\sim \text{A} \rightarrow \text{B}$   
5.  $\text{A} \rightarrow \text{B}$   
6.  $\sim \text{A} \rightarrow \text{B}$

2.

1.  $\sim \text{A} \rightarrow \text{B}$   
2.  $\text{A} \rightarrow \text{B}$

3.

1.  $\text{A} \rightarrow \text{B}$   
2.  $\sim \text{A} \rightarrow \text{B}$

4.

1.  $\text{A} \rightarrow \text{B}$   
2.  $\text{A} \rightarrow \text{B}$   
3.  $\text{A} \rightarrow \text{B}$

5.

1.  $\text{A} \rightarrow \text{B}$   
2.  $\text{A} \rightarrow \text{B}$

6.

1.  $\text{A} \rightarrow \text{B}$   
2.  $\text{A} \rightarrow \text{B}$   
3.  $\text{A} \rightarrow \text{B}$

df Co.

o c.

z d - d'

g: (b)

no by co, auto L r 1 r:

de m d j - d'

df Co.

L r - 2 f p - r m i g:

e' p ~ r e r r r r r!

q/s.

q:

c a ° ~ m d'

df Co.

c a - o f d.

r o z i m, e, i t o d.

r c h l e, c h r y

' e ~ r ~ o r g y!

q:

~ ~ ~ ~ ~

d r, A m o d.

- ' r ~ d / r m;

1.  $\sigma \sim \rho_2, \sigma \sim \rho_1$ .

—  $\sigma \sim \rho_1 - m$ ;

1.  $\sigma \sim \rho_1$ .

1.  $\sigma \sim \rho_1$ .

—  $\sigma \sim \rho_1 - m$ ;

—  $\sigma \sim \rho_1 - m$ .

1.

$\sigma \sim \rho_1 - m$ ?

$\sigma \sim \rho_1 - m$ ?

1.  $\sigma \sim \rho_1$ .

—  $\sigma \sim \rho_1 - m$ ;

—  $\sigma \sim \rho_1 - m$ .

$\sigma \sim \rho_1 - m$ ?

—  $\sigma \sim \rho_1 - m$ ?

—  $\sigma \sim \rho_1 - m$ ?

$\sigma \sim \rho_1 - m$ ?

—  $\sigma \sim \rho_1 - m$ ;

—  $\sigma \sim \rho_1 - m$ !

AUERBACHS KELLER IN LEIPZIG

*Handwritten signature*

*lg:*

- *Handwritten scribble*
- *Handwritten scribble*
- *Handwritten scribble*
- *Handwritten scribble*

*ben:*

- *Handwritten scribble*
- *Handwritten scribble*

*lg: (Handwritten scribble)*

*Handwritten scribble*

*ben:*

*Handwritten scribble*

*lg:*

*Handwritten scribble*

*lg:*

- *Handwritten scribble*
- *Handwritten scribble*
- *Handwritten scribble*

ber:

osv, 1v um!  
wew!`moflv, m.

6:

ce f d epd,  
b r d n o w k epd.

lj:

— n, 2022; k o t n d!  
s! w m e s!

ber:

s! w m e s!

lj:

1 n n z p d.  
o d.  
e s z n i j ✓,  
o z j — j g?

ber:

~ n d e! l y! ~ C M d  
~ s p e! e n t z r z t e r z m,  
e r / u b i j ✓ j o m!  
12 d - c d b ✓ s p r,  
e r / n o e n g r u.

2005 ~ wall;   
 r ~ Ad.   
 r b, cD - E   
 ~ gpt, ~ 201.

By: (6)

g d's, h n;   
 2000 the 2000.

6:

2000 ~ 2011 - 2012

By:

2000 - 2011 - 2012   
 6.

2011 - 2012

2011 - 2012

2011 - 2012

6:

h, b, c - 2011 - 2012

1 - 2011 - 2012

6000 - 2011 - 2012

gpt - 2011 - 2012

2011 - 2012

2011 - 2012

2011 - 2012

~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2  
• 1/2 ~ 1/2 ~ 1/2  
1/2 ~ 1/2 ~ 1/2 ~ 1/2  
1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2: (1/2 ~ 1/2)

1/2: 1/2: 1/2: 1/2: 1/2!

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2

- 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

- 1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2.

- 1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2

2/3: (1/2)

1/2 ~ 1/2 ~ 1/2 ~ 1/2 ~ 1/2



ben:

b b ~ 2, b b ~ 2,  
- o l e n p f,  
f d', f y, e n f 2,  
- i r d h n p f,  
b v r w h r d f h  
w e l e n r p r,  
o s t r p r.

2<sub>0</sub>:

o s t r p r.

ben:

b r ~ r r z r n  
- r p h,  
b ~ x e - f i, - r,  
- v r w r p h i  
e r n, r r ~ 2:  
2: b e l l, 2 y r,  
o s t r p r.

2<sub>0</sub>:

o s t r p r.

b:

a), G u n g l i!  
- v r n d,

~ nur die 1/2!

ben:

6 für 0, 0 2 e 2 d!

ben:

zwei 2' nur 1!

e für 1/2 r p - 2!

1 d 2' p - 1!

o 2/2 r m 1!

6 - 2/2 l o k s

2/2 l o.

1 2 0 d m e n o

2 2 f p f l o r,

0 2 4 6, 0 2 1 2 m b.

2 2 L o r 2' t e n m b.

2 2 0 2 f - 1 o m

1 1 t e r ) 1 2 m p r o p,

0 2 h r p 2' 2 2 f.

0 6 1 2 m l o s m,

— 2 2 d — 1 2 l t,

2 2 0 2 d - p o d.

ben:

$1 \sim 2 \sim 3 \sim \dots$   
 $2 \sim 3 \sim 4 \sim \dots$   
 $3 \sim 4 \sim 5 \sim \dots$

by:

$1 \sim 2, 2 \sim 3, 3 \sim 4, \dots$   
 $1 \sim 2, 2 \sim 3, \dots$

b:

$1 \sim 2, 2 \sim 3, \dots$

by:

$1 \sim 2, 2 \sim 3, 3 \sim 4, \dots$   
 $1 \sim 2, 2 \sim 3, \dots$   
 $1 \sim 2, 2 \sim 3, \dots$   
 $1 \sim 2, 2 \sim 3, \dots$

ben:

$1 \sim 2, 2 \sim 3, \dots$

ben:

L.

Uj:

$\pi \cdot \mathbb{R}_+ \cdot \mathbb{R}^6!$

Uj Co. (y U)

$\sim \mathbb{C} \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

$- \mathbb{C} \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

Uj:

$\rightarrow \mathbb{R}^6, \mathbb{R}^6 \cdot \mathbb{R}^6!$

Uj:

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

$\rightarrow \mathbb{R}^6, \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

Uj Co.

$\rightarrow \mathbb{R}^6, \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \sim \mathbb{R}^6 \cdot \mathbb{R}^6$

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

Uj:

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

Uj:

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

$\mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6 \cdot \mathbb{R}^6$

df Co.

$2r^2 r \sim r^3!$   
 $r^2 \sim r^2$   
So  $r^2 \sim r^2$ ,  $r^3 \sim r^3$ ,  
 $r^4 \sim r^4$ ,  $r^5 \sim r^5$ ,  
 $r^6 \sim r^6$ .

df: (✓)

$r^2 \sim r^2$ ,  $r^3 \sim r^3$

df:

$r^2 \sim r^2$

df:

$r^2 \sim r^2$ ,  $r^3 \sim r^3$

df Co.

$r^2 \sim r^2$ ,  $r^3 \sim r^3$   
 $r^4 \sim r^4$   
 $r^5 \sim r^5$   
So  $r^2 \sim r^2$ ,  $r^3 \sim r^3$ ,  
 $r^4 \sim r^4$ ,  $r^5 \sim r^5$ .

df:

$r^2 \sim r^2$ ,  $r^3 \sim r^3$

df. 60.

$\sim \dots \sim \dots \sim \dots$

df. 61.

$\sim \dots \sim \dots$

df. 62.

$\sim \dots \sim \dots$

63.

$\sim \dots \sim \dots$

df. 64.

$\sim \dots \sim \dots$   
 $\sim \dots \sim \dots$   
 $\sim \dots$

$\sim \dots \sim \dots$

$\sim \dots \sim \dots$

65.

$\sim \dots \sim \dots$

$\sim \dots \sim \dots$

df. 66. (67)

$\sim \dots \sim \dots$

$\sim \dots \sim \dots$

$\sim \dots \sim \dots$

soo mo:  
e, l, o, z, e,  
z, e, n, z:  
e, v, o, l, u, n, t,  
- v, o, l, u, n, t!

ben:

v, o, l, u, n, t, z, e, n, z,  
e, v, o, l, u, n, t, z,  
- e, - t, o, n, t, z,  
i, z, o, n, t, z, e, n!

df. lo.

z, o, l, u, n, t, z,  
a, n, n, z,  
v, o, l, u, n, t, z,  
i, n, n, z,  
- a, n, n, z,  
- i, n, n, z,  
e, v, o, l, u, n, t,  
v, o, l, u, n, t, z,  
- a, n, n, z,  
i, n, n, z,  
i, n, n, z,  
i, n, n, z,  
- a, n, n, z,  
- a, n, n, z.

imm-yn  
d2, c-yl.

2<sub>o</sub>: (dye)  
imm-yn  
d2, c-yl.

ly:  
la! la! ea za!

lo:  
-°-terls si!

lon:  
d, lon - Wol!

lren:  
-a, l)! -a'c!

ly lo:  
lhrm ~ 20, l)! d/yn,  
c ~ c ~ b w c.

lo:  
r2ne/ε2n!



alg. lo.

1.  $bl \rightarrow \dots$   
2.  $dr, cr, cr, cr$   
3.  $er, er, cr, cr$

6:

$\rightarrow \dots$

lg:

$gl \sim \dots$   
 $\rightarrow \dots$   
 $er, er, cr, cr$   
 $er, er, cr, cr$

1.  $er: (\dots)$

$6^2 \dots$

alg. lo.

$gl \sim \dots$

6er:

$6^0 \dots$   
 $er, er, cr, cr$

1.  $er:$

$er \dots$

df Co. (nd ~ em. / kg)  
~ of, co of / jgn?

kg:  
or / a or / - wh?

df Co.  
1 fu - r ten l.

res: (y kg)  
st: e b d j ~, h u y n.

kg:  
y: c, c, c; - 1 d = c 2.  
e h u c /, e b n.

df Co. (n ~ 2 (y, c kg d,  
~ / ~ d r e l t)  
y h ~ c / d o, l e h / j r h!

res:  
D, e 2 y g o h.

df Co. (y b e r)  
- ^?

ben:

$\rightarrow \text{pau}$

$-\text{Nob}^{\text{co}} \sim!$

df lo  $\hookrightarrow$ ;  $\rightarrow \text{z}^{\text{e}}$ ;  $\text{Dbl}$   $\hookrightarrow$   
 $\text{pl} - \text{gl}$ .

ben:

$\text{w} / \text{g} \text{e} \text{h} \text{e} \text{r} \text{e}$

$\text{e} \text{z} \text{d} \text{s} \text{t} \text{t} \text{h}$ .

$\sim \text{h} \text{t} \text{w} \text{v} \text{w} \text{h} \text{p} \text{e}$ ;

$\text{D} \text{N} \text{c} \text{h} \text{t} \text{m}$ .

$\text{b}:$  (n)  $\text{df} \text{lo} \text{or} (\text{g} \sim \text{st})$

$\text{z} \text{w} \text{f} \text{u} \text{r} \text{z} \text{u} \text{v} \text{u} \text{v}$ ;

$\text{w} \text{v} \sim \text{z} \text{w} \text{d} \text{h} \text{t}$ !

$\text{df} \text{lo}.$  ( $\hookrightarrow$ )

$\text{f} \text{u} \text{r} \text{z} \text{u} \text{v} \text{u} \text{v}$ .

$\text{z} \text{w}:$

$\text{z} \text{w}, \text{z} \text{w}, \text{z} \text{w} \text{z} \text{w}$ !

$\text{z} \text{w} \text{z} \text{w}, \text{z} \text{w} \text{z} \text{w} \text{z} \text{w}$ .

$\text{df} \text{lo}.$

$\text{z} \text{w} \text{z} \text{w} \text{z} \text{w} \text{z} \text{w}$

$\text{z} \text{w} \text{z} \text{w} \text{z} \text{w}$ .

pe! → le 20 pt!  
2 ch c n, om!

der:

2 ter! → 1 n pt.

Dr, Dept - g 0<sup>2</sup>.

df lo. (20<sup>per</sup> per)

h h' cgr!

2 m' p m;

' c' d', 2 g, m,

' 2 p n c n m.

~ h w, m!

x ~ c e, m!

~ p, l h - p b!

u: (n b, l h p - ter' ent

c n 20 - 0)

~ 2 p h m' s b!

df lo.

→ m, e r v i s b!

6 h m e 2 l.



lg:

o, 5 e j f z u w!

lra:

1 e l, 1 2 0 ~ 2 y b o w 12.

6:

co, 2 1, -) f 2,  
- 2 0 2 f b o l w!

df lo.

f, - l c b o!

6:

w g!  
e - 1 2 2 l u m m?

ben:

w l, - 2 2 2 m!

lra: (f ~ l l o<sup>2</sup> 11,

- f / l l m)

1 h! 1 h!

f b j! ~ n i f z l!

6 p, 1 0 - 12 5 d f l o o.

df Co. (2nd pr)

log pe - c

sen 6 - d!

→ x - c!

b f u d - o i n r.

ren:

c v ? d o z r e!

lg:

c u r ! o , d i

o:

- h r / r e!

ben:

x l o h r e

o , d ~ f ! o , d h !

l b o u v ' n o.

i h h - d o o - m , v o.

df Co. (0 - h)

N<sup>e</sup>, o - o ' n v e!

- w l / , o ' l l p o.

~ g<sup>12</sup> l<sub>6</sub>, per l<sub>u</sub> end.

6:

co r<sup>9</sup>?

ser:

o?

g:

are no?

ben: (j<sup>6</sup>)

- e r<sub>1</sub> z<sup>2</sup> r!

ser:

- a ~ g<sup>1</sup>, r<sub>1</sub> p ~ r!

g<sup>1</sup> ~ f, r<sub>6</sub> ~ r!

g:

~ , d v ~ , co p<sup>2</sup>

g:

c<sup>1</sup> ~ m<sup>2</sup> c<sub>1</sub> r g<sup>1</sup>,

° v / w e r r!



der:

$12 \sim 620 / \text{run} \sim m$

$5 \sim 60 \sim 2m$

$1 \sim 2 \sim 60$

$\int D^2 \phi \text{ coc.}$

$2! \sim c \sim 2 \sim 60?$

6:

$1/2 \sim 20, 1 \sim 2$

7:

$1 \sim 2, 1 \sim 2$

ben:

$1 \sim 2 \sim 2!$

der:

$1 \sim 2 \sim 2, 2 \sim 2 \sim 2!$

# HEXENKÜCHE

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Q:

$\rightarrow - \infty$ .

df Co.

$z! \sim z, \rightarrow z!$

$- \sqrt{-\mu} / z:$

$\ln \rho \sim 2 \ln \rho,$

$\ln \sim \ln - \ln$

$\ln \rho - \ln \rho$

$\sim \ln \rho \sim \ln \rho,$

$\sim \ln \rho \sim \ln \rho,$

$\ln \rho \sim \ln \rho, - \ln \rho,$

$\sim \ln, \sim \ln, \ln \rho;$

$e \cdot \ln \rho, \rho,$

$\ln \rho \sim \ln \rho!$

Q:

$\ln \rho \sim \ln \rho, \ln \rho \sim \ln \rho,$

$\sim \ln \rho \sim \ln \rho.$

$\ln \rho \sim \ln \rho \sim \ln \rho.$

df Co.

$\rightarrow \ln \rho, \ln \rho.$

Q:

$\ln \rho \sim \ln \rho!$

$\ln \rho \sim \ln \rho \sim \ln \rho?$

alg. lo.

$e \sim \text{gen. f. } \mathcal{M}!$

$\rightarrow \frac{1}{2} c_{40} b_{40}$

$\text{Ind} - \text{off} \rightarrow$

$f_e \sim \sqrt{2} c_{40} \sigma$

$\sim \text{gen. v. } \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

$\rightarrow \text{co. } \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

$b, c, d \sim \text{gen. } \mathcal{M}!$

$e, v, e \sim \mathcal{M}!$

$f \sim \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

in:

$\rightarrow \mathcal{M}!$

$\rightarrow \mathcal{M}!$

$\rightarrow \text{v. } \mathcal{M}!$

alg. lo.

$a \sim \text{v. } \mathcal{M}!$

1. 11:

— 11, 11, 11, 11

11. 11. (11)

11. 11. 11. 11.

11:

— 11, 11, 11, 11

11. 11.

11, 11, 11, 11, 11

11, 11, 11, 11!

11. 11.

— 11, 11, 11, 11

11, 11, 11, 11

1. 11:

11, 11, 11, 11

11. 11.

11, 11, 11, 11

11. (11) 11 — 11, 11, 11, 11

— 11, 11, 11,

— 11, 11, 11,

— 11, 11, 11!

11, 11, 11,

-  $\curvearrowright$   $\curvearrowleft$   $\curvearrowright$   $\curvearrowleft$ ,

-  $\curvearrowright$   $\curvearrowleft$   $\curvearrowright$ .

*df. 60.*

$\sigma \tau \tau^2 \dots$

$\curvearrowright \curvearrowleft \curvearrowright \curvearrowleft \dots$

$\sigma \tau \tau^2 \dots \sigma \tau \tau^2 \dots$

*in:*

$e, d;$

$b, f, l$

-  $\curvearrowright \curvearrowleft$ ;

$b, r, \sigma, \tau$

$\sigma, \tau, \sigma, \tau$

$\sigma, \tau, \sigma, \tau$ .

$\sigma, \tau, \sigma, \tau$ ;

-  $\sigma, \tau$ ;

$\sigma, \tau, \sigma, \tau$ !

$\sigma, \tau, \sigma, \tau$ ;

$\sigma, \tau, \sigma, \tau$ !

$\sigma, \tau, \sigma, \tau$ !

$\sigma, \tau$ ;

-  $\sigma, \tau$ .

df lo.

co e b!

in: (2/ - 2)

dey ~ d,

- 1, p 2, m.

- d / r p - b o k z.

p p e b!

ndey ~ d,

- e b r / m?

df lo. (2<sup>2</sup> L<sub>2</sub> ~ 200)

- q L b?

m - r p:

- m L b!

- m / ~ L b,

- m / ~ 20!

df lo.

p lo r!

in:

~ ce r x,

- o p 2 00!

- ~ d ~ df lo, p.

4: (Ch 4/4 ~ r p p p p,  
 ) R u e p p p, u e) S R d h u t 2)  
 c o o r i c d ~ r d u e  
 f / ) = r p p p!  
 - r, s v ~ p d e r b,  
 - b r d r p e!  
 D c i s r p u e,  
 c i - c r, s / d i,  
 r i b ~ o o p r u o z i! m  
 e z d u e / r c u!  
 p r r; e c r - p r?  
 w o r r z y f t r  
 ~ u h / e r d e o z i?  
 - k o b e r) s r e i?

u f l o.

~ m; c ~ r i) b o o n c d,  
 - b a r e k d,  
 e r o - c o p p o c.  
 l r o o p p r o s,  
 i c o o r - ~ p p r e p p r;  
 - o d, c e r z p o o z,  
 o l m o z r y b r!

4: 1 r t i ~ p r. u f l o, ) i i o e r e  
 - i i c e p r e, l l / j p r.



$\alpha \beta \gamma \delta \epsilon \zeta \eta \theta \iota \kappa \lambda \mu \nu \xi \omicron \pi \rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\sim \rho \sigma \tau \upsilon \phi \chi \psi \omega \rightarrow \rho \sigma \tau \upsilon \phi \chi \psi \omega$

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$  (12 letters)  
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$  (12 letters)  
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$  (12 letters)

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$  (12 letters)  
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$  (12 letters)  
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$

$\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$   
 $\rho \sigma \tau \upsilon \phi \chi \psi \omega$

U: (0-10)  
~ 10 10 10 10  
10 10 ~ 10

Uf Co. (2-10-10)  
~ 10 10 10 10  
e-10 10 10 10

no, ch, ing, k, o, p, s, l, n, y, l, o, k, c, j  
z, x, z, z, d, n, d, r, l, z, z, z, z, z, z, z

i, d, z:  
t, t, t, t, t  
w, r, r, r, r, r, r  
w, d ~ r, o, r, d, l, z  
m, r, r!

Uf - Uf Co. w, r, e.

co. e, z?  
a ~ r, z?  
co ~ r, e, z?  
a z, l, z?  
1, z, z  
r, o, p!

o, l, z, z, z, z, z ~ no - f, l, z, d, Uf, Uf Co - ~ r, r, e, z.

df. (Ch ~ ce, ~ i ~ ce 2, ~ w ~ l, ~ o ~ l z t)

y! y!

es d' l!

es d' e 20!

- i ~ go,

- w, y o,

je ~ ee.

n, d' ~ n - s p M.

und e v d' p k! z o e!

und e e ~ n - 2 b?

co 2 d' p, - p 1 j,

h t d' - e p r b!

2 e i ~ n co / u p t?

n e, 2 u l e r / m i?

2, 9 p b p t?

o, 1 p k o d' m i?

1 d'.

- 2, y ~ 2 b!

o, d ~ b e l o.

c 2 e ~ l e m i?

df. Co.

l n ~ d e - e s;

e l : - c j,

er 1/2 2.

D, n, a, i, e, d, e, t,

25 ~ L, l, j, f, i;

e, n, o, f, h, a, r, i, n, / u, j, h, i;

c, b, e, z, m, g, l, - n, s, i?

- c, o, ~ b, o, u, n, d, ~ 1, / 2, 0, n,

- s, v, l, e, n, g, e, i;

e, r, i, e, r, i, v, o, u, s, h, e, r, e,

o, f, h, e, h, e, l, p, e, r.

1, 2, 3: (h, y, c)

o, - g, e, n, e, r, i;

o, i, ~ h, e, n, o, u, e, r!

1, 2, 3: h, o.

~ n, e, c, e, s, s, a, r, y!

1, 2, 3:

c, o, n, t, r, a, s, t, i, o, n!

1, 2, 3: h, o.

i, j, r, n, o, b, i, l, i, t, y;

e, n, i, g, m, a, t, i, o, n,

~ c, o, n, t, r, a, s, t, i, o, n, / p, h, i;

e, n, d, v, e, r, y, t, h, i, n, g, - i, s, 2, 3;

1, 2, 3 ~ n, e, c, e, s, s, a, r, y.

e, g, f, e, l, l, i, c, i, t, y;

0, 2, e, d, e, e, l, v!

~ d - g, o, r, p, e.

1. B. (1, 2, 3)

2, 2, 2, e, 2, ~, ~, ~!

1, ~, ~, ~, ~, ~, ~, ~, ~!

1. B. (1, 2, 3)

~, ~, ~, ~, ~, ~, ~!

9, 1, ~, ~, ~, ~, ~, ~.

1. B.

~, ~, ~, ~, ~, ~, ~, ~.

1. B.

~, ~, ~, ~, ~, ~, ~, ~!

2, 2, 0, 1, ~, ~, ~, ~;

1, ~, ~, ~, ~, ~, ~.

1. B.

2, 2, ~, ~, ~, ~, ~, ~;

2, ~, ~, ~, ~, ~, ~;

1, 0, ~, ~, ~, ~, ~, ~;

1, ~, ~, ~, ~, ~, ~.

1.

2, 0, ~, ~, ~, ~, ~, ~!

~, ~, ~, ~, ~, ~, ~, ~.

df Co.

- in  $2L_0^2 - p_2^0$ ;  
in Parameter  $\Delta$ .  
per  $n_0, p_0, p_1$ ,  
-  $p_0 - 10$ !

1.  $\Delta, 20^{\text{er}}$  per,  $p_0 - n_0 - p_0$  oder  $2n_0$ ;  $z^0$   $h_0, 20 \sim 1$   
 $n_0, 100/100, - 20 \text{ } \Delta, 100 \sim 200$ ,  $p_0, 100 \text{ } z^0$   
 $n_0, 100/100, - 20 \text{ } \Delta, 100 \sim 200$ ,  $p_0, 100 \text{ } z^0$

Q: (j df Co)

$\sim, 20 \text{ } v, 100 \text{ } e \text{ } \Delta$ ;  
 $e \text{ } \Delta, 100 \text{ } p_0, 100 \text{ } p_0$ ,  
 $\sim 100 \text{ } \Delta$ ,  
 $20 \text{ } v \text{ } \Delta, 100 \text{ } p_0$ .

df Co.

-  $100 \text{ } e \text{ } \Delta, 100 \text{ } p_0$ ;  
-  $100 \text{ } p_0$ !  
 $100 \text{ } p_0 \sim 200 \text{ } \Delta$ ,  
 $100 \text{ } p_0 \sim 200 \text{ } \Delta$ .

$\sim 100 \text{ } \Delta, 100 \text{ } p_0$ .

1.  $\Delta$ : (220  $\Delta$   $100 \text{ } p_0, 100 \text{ } p_0$ )

erb  $p_0$ !  
 $100 \text{ } p_0$ ,

- f o r z,  
- e d z,  
- b e z.  
w, h!  
o b l - o,  
- d, b,  
D o r - R,  
- p - M:  
- n i e,  
- j i n e.  
e · e d i - n e!

U:

D o r t, , f l p l r.

U f l o.

e · i n t e r,  
m - c, - n e r y d;  
z u t f o r e n,  
e n n e i n e f f  
w d z p r o b r o o l e n.  
u b o i n d i t - n s.  
- a i n j e n f,  
p e - e, - e - e  
N o g e n j d.  
- g f - d r e g f d;  
a - ) i ~ n n d o?

Handwritten notes in German, possibly related to a course or lecture. The text is partially obscured and difficult to read.

1. B. (L/P)

1.22.11

1.07,

1.22.11

- a/ent,

2.6.11,

1.22.11

4:

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11

1.22.11





~erbrn ~ 2D d'yy,  
- we q'eb e 2 ~ n'yy,  
a) 2e d-2-e f'.

Q:

od → z ~ p'z!  
e h'v e a n / z!

df' h'.

~! ~! e° e 2 f' h'  
~ we od ~ o 2'.

o.

e b, 2 q' h' p' u,  
we 2 ~ 2 ter c'.

STRASSE

U. was spe.

U:

u z u l o , e r l o n ,  
u n e - / r p h e ?

was:

u c e l o , c e z u ,  
r p h e D z u .  
b r l ) - o - u .

U:

u z u , 9 0 u c z u !  
- k o z u n p z u .  
b - o ! - h r o p h e ,  
- k o p h e p h e .  
- k u - i , c e l o ,  
i n i c u o p o !  
o b i n e p h e ,  
o h ) z u z y p h e ;  
o b r o p h e c e ,  
e i n p h e z u !

u l f h o p h e .

Q:

2, 4, 6, 8, 10, 12!

alg. Co.

2, 4, 6, 8, 10, 12!

Q:

6, 8, 10, 12.

alg. Co.

entire world,

powerful

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

in 2000;

entire world;

8, 10, 12!

Q:

8, 10, 12!

alg. Co.

8, 10, 12!

international,

-entire world,

-2, 4, 6, 8, 10, 12,

8, 10, 12!

Q:

$\sim \alpha \nu \sigma$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$

alg. Co.

$\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$

Q:

$\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$

alg. Co.

$\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$   
 $\sim \nu \nu \nu \nu \nu \nu$

Q:

$\circ \text{KMD} \rightarrow e.$

df Co.

$h \rightarrow g \rightarrow p_0:$

$1 \rightarrow \gamma, \gamma^2 \rightarrow \gamma^c$

$2 \rightarrow \gamma \rightarrow \gamma^c.$

$2 \rightarrow \gamma \rightarrow \gamma^c.$

$1 \rightarrow \gamma \rightarrow \gamma^c.$

Q:

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

df Co.

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

$h \rightarrow \gamma \rightarrow \gamma^c.$

Q:

$h \rightarrow \gamma \rightarrow \gamma^c.$



ABEND

~ ~ ~ ~ ~

www: (rjl lbe - are)

12202, c1 - 0,

a 27 2 po!

\ o p l e n e

- e r e 2;

e d, l e i g n e m

\ c d o d l - m p o:

1.

rlf lo. lf.

rlf lo.

2, 27 0, - 2!

lf: (l - m g y w)

1 u d, o l e n!

rlf lo. (2 p v e)

1 l e o r d 2 l - ~

1.

lf: (l e g g e)

~ ~ ~ , p e n y,

\ e g 2 l e c d!





2. 2. 2. 2. 2. 2.  
~ 2. 2. 2. 2. 2. 2.  
- 2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

- 2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.  
- 2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

- 2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.  
2. 2. 2. 2. 2. 2.

alg. lo.

1.  $\sim$   $\rightarrow$   $\rightarrow$   $\rightarrow$

120  $\rightarrow$   $\rightarrow$   $\rightarrow$

130  $\rightarrow$   $\rightarrow$   $\rightarrow$

140  $\rightarrow$   $\rightarrow$   $\rightarrow$

150  $\rightarrow$   $\rightarrow$   $\rightarrow$

160  $\rightarrow$   $\rightarrow$   $\rightarrow$

170  $\rightarrow$   $\rightarrow$   $\rightarrow$

4:

180  $\rightarrow$   $\rightarrow$   $\rightarrow$

alg. lo.

190  $\rightarrow$   $\rightarrow$   $\rightarrow$

200  $\rightarrow$   $\rightarrow$   $\rightarrow$

210  $\rightarrow$   $\rightarrow$   $\rightarrow$

220  $\rightarrow$   $\rightarrow$   $\rightarrow$

230  $\rightarrow$   $\rightarrow$   $\rightarrow$

240  $\rightarrow$   $\rightarrow$   $\rightarrow$

250  $\rightarrow$   $\rightarrow$   $\rightarrow$

260  $\rightarrow$   $\rightarrow$   $\rightarrow$

270  $\rightarrow$   $\rightarrow$   $\rightarrow$

280  $\rightarrow$   $\rightarrow$   $\rightarrow$

290  $\rightarrow$   $\rightarrow$   $\rightarrow$

300  $\rightarrow$   $\rightarrow$   $\rightarrow$

310  $\rightarrow$   $\rightarrow$   $\rightarrow$

320  $\rightarrow$   $\rightarrow$   $\rightarrow$

$b^2 - mb^2$ !

$\rightarrow p!$

1.

*www:* (2  $\rightarrow$  a)

$i - j, - e/p^2$

6/16/15.

$- \cdot \partial u - cu/10$

$- \sqrt{v} - 1, c/0/0 m$

$1 - \sqrt{1}, u_1 \sim u_2$

$v \sim \theta - \text{für } u_1 \sim u_2$

$u \sim \sqrt{1} - \text{für } u_1 \sim u_2$

6/16/15, 16/15) - eff.

$- a \sim u_1 \sim u_2$

$u_1 \sim u_2$

$u_1 \sim u_2$

$u_1 \sim u_2$

$- u_1 \sim u_2$

$- u_1 \sim u_2$

$- u_1 \sim u_2$

$- u_1 \sim u_2$

-o, n/jk,  
f, o f d R ✓,  
2, o o r n,  
~ d / p ✓.

o o r n,  
i, k r n,  
s z n f n,  
e l s<sup>2</sup> z o n.

e l p e f d,  
h r f n o n,  
- c h ~ z d d  
z d i b.

o r g p, h n  
- o m h o n,  
i, n h p o m,  
h n ~ l h n.

o h i f, n o n p w - w e z n b.

o n d e z n b n z?  
i z o d n p o ~ f.  
- i d c a n! c o n c o n o?  
f l b h e s ~ b e,  
- z n p e s.

erw - 20<sup>th</sup> Ave  
1000, 100 - 5!  
Co. 21 100! 20,  
- 20 12 10/20!  
- 21 22 10/20  
20 20 1000.  
0 20 100!  
20 100 100!  
0 20 100 - 10 - 20.  
0 20 100 100!  
20 20 100 100.  
20 20 100 100!  
0 20 100 - 20,  
- 20 100 100;  
20 20 100 100.  
20 20,  
20 20  
0 20 100!

# SPAZIERGANG

U<sub>2</sub> für 5-1000.  
1/2 U<sub>2</sub> Leo.

U<sub>2</sub> Leo.

U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
1/2 U<sub>2</sub> Leo, 1/2 U<sub>2</sub> Leo!

U<sub>2</sub>:

U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
— U<sub>2</sub> Leo! U<sub>2</sub> Leo!

U<sub>2</sub> Leo.

U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
U<sub>2</sub> Leo! U<sub>2</sub> Leo!

U<sub>2</sub>:

U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
U<sub>2</sub> Leo! U<sub>2</sub> Leo!

U<sub>2</sub> Leo.

U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
U<sub>2</sub> Leo! U<sub>2</sub> Leo!  
U<sub>2</sub> Leo! U<sub>2</sub> Leo!

гдм рмд  
- б ртввв,  
свддд. елв;  
- 2 з е г д, б р м,  
е а / б о н а.  
» р н с «, б в, » г л о з  
д л, о, п с е в.  
- м, н, з, в, с, з,  
' с з р о н, л з! «  
в л н г л ~ г л о з,  
· з, д, б, ~ г л о з,  
- а н! з з о / ;  
· н ~ л п л о з.  
и н р ~ л н н;  
· н ~ г о н н,  
р) ~ н с н.  
· г л: » ~ н л п!  
а с о е, г л.  
и н л, ~ н н,  
з н г с е г л о  
- д л ~ ) н о;  
и н л, з, н л  
н г л о з е л: «

Q:

е ~ г л ~ л,  
~ л ~ н ~ л ~ л.



df Co.

$\rho \sim \mu, \nu - \nu,$   
 $\circ \circ \circ \circ \circ \circ,$   
 $\text{ent} / \text{ent} - / \nu,$   
 $\circ \circ \circ \circ \circ \circ \circ \circ,$   
 $\rho \mu \text{ - ent} \text{ - } \mu$   
 $- \circ \circ \circ \circ \text{ - } \nu \text{ - } \nu.$

Q:

-  $\nu \nu?$

df Co.

$\rho \sim \mu,$   
 $\circ \circ \circ \circ, \circ \circ \circ - \nu \circ,$   
 $\text{ent} \text{ - } \rho \text{ - } \nu - \nu,$   
 $\nu \nu \sim \nu; \nu / \mu.$

Q:

$\circ \rho \mu \nu \nu \nu \nu.$   
 $\rho \mu \nu \nu \nu \nu \nu \nu \nu \nu!$   
 $\nu \nu \nu \nu - \nu \nu.$

df Co.

$- \nu \nu^2 \text{ - } \nu \nu \text{ - } \nu \nu \nu!$

Q:

-D, -B, D, r, o,

x, p, r, r, r, r!

- , L, o, o - / o L,

- p, r, r, r, r, r!

Uf Co.

L, r, r, r, r, r, r, r.

Uf.

Uf Co.

- ~ r, r, r, r, r

r, o, r, r, r, r, r, r

r, r, r, r, r, r, r, r, r.

r.

# DER NACHBARIN HAUS

WP: (e)

21 y 20 20 20 20

10 20 / C. p!

verfordern

- bps 2 f s e

1 r 20 20 / 20

1 r, 20 20, 20 20

6 C.

1. 20 20 20 - C! 20

1. 20 20 20!

want and.

WP:

WP!

WP:

WP, co<sup>20</sup>?

WP:

WP 20 20, 20 20!

WP 20, 20 20 20

WP 20, 20 20,

- 20 20 20 - 20,

WP 20, 20 20

WP:

erob/`u<sub>2</sub>i  
✓ 42 ✓ / ✓ h.

WML:

Dob →! D<sub>2</sub>b →!

WP: (y b s)

- 4 2 0<sup>2</sup> 2 2 1!

WML:

erob, er, /s`ro  
D<sub>2</sub> 2 2 2 2 0.

WP:

erob → /j v 2<sub>2</sub>  
- 1 ~ 2 2 2 2 ~;  
er ~ 2 2 2 2 2 2 ~;  
1 2 2 2 2 2;  
- erob ~ 2 2 2 2 ~ b,  
erob - D - D ~ 2 2 b.  
~ 2 2 2 2, 1 2 2 2 ~;  
1 2 2 2 2 2, 2 2 2 2 2 2.

WML:

erob →, 1 2 2 2 2 2;  
- 2 2 2 2 2 2!

and.

wp:

Dr! ver 20?

wp: (2 20 20)

i ~ her 2 ~ 2!

df lo 15.

df lo.

v - l, le 2 p m,

20 ~ 2 y 2 m.

1 m 1 ~ 2 m p.

— 1 2 2 2 2 2!

wp:

1 2 2 2 2 2!

df lo. (2 2 2)

1 2 2 2, v 2 p m,

6 2 2 2 ~ 2 2.

1 2 2, 1 2 p m,

— 2 2 2 2.

wp: (B)

$\ln, \sqrt{e}, z \rightarrow z^i$   
 $\sim \ln \sim \ln z$

wp:

$1 \sim \ln \sim \ln z$   
 $Dz \sim z \cdot z / z$   
 $z - \beta e^{z/2}$

df lo:

$D, -1 \cdot z \sim i$   
 $b \sim \cos, \sim \ln - \ln!$   
 $\sigma \ln, \sigma, e, \ln \sim \ln.$

wp:

$\cos \ln, \ln \sim \ln \sim \ln$

df lo:

$1 \sim \ln, \sim \ln \sim \ln \sim \ln!$   
 $1 \sim \ln, \sim \ln \sim \ln \sim \ln!$   
 $1 \sim \ln \sim \ln \sim \ln!$

wp:

$\ln \sim \ln \sim \ln \sim \ln!$   
 $\ln \sim \ln \sim \ln \sim \ln!$

www:

D: x h, y d!

df Co.

- 2 v, L v p!

www:

12 2 2 ~ n / h,  
\* v p e j e m.

df Co.

L e 2 0 e, e 2 0 L e 2.

wp:

y / v o o n o 70!

df Co.

- d = C e s, m  
v 2 m 1 v 0  
~ ^ c p c f r  
j o r n 2 4.

wp:

2 1 0 o d 9 ~ v p j m?

df lo.

h, - u, 20-g:

o b d h l r e s e l v o s m!

R x h<sup>2</sup> r q u.

wp:

co! / ~ g p r? m p e?

co te r e c n o u - g R h e o o m g d,

f y e m s e d,

- h 2 u, h u!

df lo.

200, - 4 v 2 f e;

~ o o r e c o d / y d.

D. u - o l u o;

h, - u h t o m p r 2 f u.

wp:

D. e. r q u - p r ?!

p o, i - l r u d l e r 2 u.

df lo.

r c m d, 2 / 2, o / h:

r e ~ h o o d r e.



www:

D ~, e ~ f ~ g ~ h ~

df lo.

g / ~ u, ~ e ~ u.

' : ~ \ 2 b ~ u ~ u,

— ~ t o ~ p ~ n / 2.

www:

e ~ o ~ r ~ o / \ 0.

df lo.

0 ~ e ! ~ u ~ ) 0.

www:

y / v e!

df lo.

1 g e ~ o ~ g ~ u ~ u,

- a ~ o ~ u ~ o ~ s ~ b,

S ~ u ~ f ~ f ~ f ~ ; ~ e ~ - ~ g ~ e ~ o ~ r ~ b

- b ~ e ~ e ~ c ~ u ~ d ~ s ~ i ~ f ~ t ~ r.

» a ~ , ~ t ~ , ~ » o ~ , ~ v ~ l ~ s ~ h ~ e ~ o ~ 2 ~ o ~ ,

— ~ u ~ p ~ u ~ , ~ u ~ c ~ e ~ — ~ j ~ u ~ o ~ !

D, ~ i ~ v ~ i ~ s ~ i ~ o ~ n ~ p

» a ~ b ~ v ~ t ~ » ~ 2 ~ g ~ e ~ u ~ ! «



e ~ y ~ 20 ~ 0 ~ 0 ~ 0 ~ 0  
e ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
- 1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
2 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

wp:

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

df lo:

a ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0

wp:

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0

df lo:

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

W12:

$D_2 \cdot \partial \bar{z} \sim \partial \bar{z}$ ,  
 $\partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$

W13:

$\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$

W14:

$\sim \partial \bar{z} \sim \partial \bar{z}$

W15: (17)

$\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$   
 $\sim \partial \bar{z} \sim \partial \bar{z}$

W16:

$\sim \partial \bar{z} \sim \partial \bar{z}$

df Co. (l)

ly 24, 200 20!

1

dc, r!

ww:

dc!

wp:

— d v d p!

12 m ~ 202,

c, d - c ~ 200 - 200.

10 1/2 ~ 200,

1, 2 ~ 200 200.

df Co.

1, 2 ~ 200 200

1 ~ 200, 200

2 ~ 200 ~ 200,

~ 1 ~ 200 ~ 200.

1 ~ 200.

wp:

— 4 e h!

df Co.

- x, Lf. Der?

~ Lf. med. f. p. b.

L. e. 2. l. s. b.

wp:

~ 2. 2. 2. 2. 2. 2.

df Co.

~ 2. 2. 2. 2. 2.

wp:

~ 2. 2. 2. 2. 2. 2.

~ 2. 2. 2. 2. 2. 2.

STRASSE

U. d. f. lo.

U:

o p i -> l e n i -> u e r i

U. d. f. lo.

s k ! b e , j e l z i  
z r e f . W h - z  
z r e d r e l n d i w h o z i  
e i n c o o r o  
j o h i - f u c o r !

U:

- d !

U. d. f. lo.

d' d c o s u w l .

U:

- e d . c o h w l .

U. d. f. lo.

r e n - ~ d f n o r ,  
e r o r r e n e q u t z e  
z l e s z ~ z i n g z ~

Q:

o m! r c u b, v o v h v o!

Uf Co.

o m! r c u b, v o v h v o!

y f - , - f j o o.

Q:

c, i u o, - i c u f o.

Uf Co.

- 2 m u! e s c d r u!

- e s t o z - r u,

e r l g j w o y d?

o r s z i, d - c o) r u o d,

S u g u, c o) r u z n e l - e y u d,

e h t u / 2 2 o r d p u?

2 h g u, m u f?

- - r s o r i r u,

o r e s, r v b, l e g u,

T o s t u g o t v e p b!

Q:

e y b - v d - m, - o b b.



alg. Leo.

h, c, r, o, l ~ B, h, d.

e, r, n, i, z, e, n, n,

e, r, n, h, l, u, n

- e, o, u, t, r, z, u, i

U:

- j, s, z, y.

alg. Leo.

z, j, z, u!

e, i, s, d, n, L, j, - u,

S, p, s, o, l, n, k, u, n

'e, D - s, z, y, u, i?

U:

s, e, l, - !, m, c, i, g, f, e,

l, e, f, l, e, p

D, u, n, d, n, u, l, e,

e, r, i, d, z, e, n, b, o, n, g, l,

D, e, n, z, h, e, c, s, t, l,

- z, z, s, i, l, s,

f, e, n, d, s, d, n, n,

'e ~ L, g, s, y, u, i?

2/3/20

1/2/20

4:

2/2/20

1/2/20, - 2/2/20

1/2/20, - 2/2/20

1/2/20.

- 2/2/20, 2/2/20

1/2/20, 2/2/20

GARTEN

wmt ~ l' r,  
wmt ~ l' r - r gpc.

wmt:

1 b, c, e, d - x - z, l,  
x) b, d, y, z.  
~ wmt - r, l,  
wmt l' y, z,  
1 c, o, y, e, l' h, i, n, z  
z r r p / b, l' r.

l':

~ wmt, ~ c, l' u, b, l'  
wmt c, o, y, d.  
~ b, r, z.

wmt:

wmt ~ l' a ~ l' r b ~ wmt?  
b - r, i - y!  
wmt, 1/2 - wmt wmt?  
wmt, 2/3.  
wmt - x.



$b^2$   $\gamma^0 \gamma^i$ ,  $\sigma_{ij}$ .

Q:

$\gamma^0 \gamma^i$   $\rightarrow$   $\gamma^0 \gamma^i$ ,  
 $\sigma_{ij}$   $\rightarrow$   $\sigma_{ij}$ .

www:

Q:

Q:

$D, e, \gamma^0, \gamma^i$   
 $\gamma^0 \gamma^i$   
 $\sigma_{ij}$ ,  $\sigma_{ij}$   
 $\sigma_{ij}$

www:

$\gamma^0 \gamma^i$   
 $\sigma_{ij}$

Q:

$\gamma^0 \gamma^i$

www:

$\gamma^0 \gamma^i$   
 $\sigma_{ij}$   
 $\gamma^0 \gamma^i$   
 $\sigma_{ij}$









df Co.

e4v2f. e!

0, p m e r o w e

w x.

Q:

g m b, l, r, n, E,

2 0 1 2 ~ w n e?

w w:

0 1 1, 1 2 1 2 7.

Q:

- g y b, l, r, n, e?

co), b, l, r, n,

o g b e<sup>2</sup> e r p n e?

w w:

1 c u y d, v a e n p i;

- l n e s v k o n.

D, d, 1, 2, 2 e r d n

co b o, y g o r o p i?

- g n e s - y p e n,

2 e o n l e a j r e n.

p b o d, c b l, co)

1 - n e s v k o n;

$\sim \rho, \alpha, \beta, \gamma, \delta,$   
 $e, \dots / \omega \sim \dots$

Q:

$\rho, \beta!$

WWT:

$b \sim r!$

$b \sim \rho - \text{guter} - \theta, \text{ bei } r, \text{ } \sim \rho^2 \text{ h.}$

Q:

$\cos^2 \sim \rho^2$

WWT:

$\sim, \dots \rightarrow \sim \rho.$

Q:

$\rho!$

WWT:

$\nu! \sim \rho \nu_e$

$b \sim \theta - \nu - \rho!$

Q:

$\cos \nu - \rho \nu_e?$

www: (2.4.7)  
~ M P m M P /.

Q:  
e 2 lo 2 e y b!

www: (L/P)  
M P m / m M P m / m  
e f u o b o 2 2 e L e.  
~ M P!

Q:  
h, 2 r! o q u c  
o 2 n f) o ~ M P!  
y b e, c o e o? ~ M P!  
~ b o r u e r e.

www:  
P s - P!

Q:  
- j e ! ! o r u,  
o r x e e o a  
c o f f 2:  
) 2 p m u y - c  
j b, i o o 2 o!  
o! m r e x y b o

$\sim, \sim \text{re!} \sim \text{re!}$

wurde  $(\mu, \sigma, \nu) \rightarrow -\theta \text{ cr.}$   
-  $f \sim \text{wurde} \text{ für, er l. d. r.}$

WP:  $(\sim \text{re})$

$\sim \text{re} \sim$

df.  $\text{co.}$

$\text{L}_1 - \text{r} \sim \text{p.}$

WP:

$\sim \text{re}, \sim \text{re} \text{ für,}$

$\sim \text{re} \sim \text{re} \text{ für.}$

$\sim \text{re} \sim \text{re} \text{ für}$

$\sim \text{re}$

$\sim \text{re} \sim \text{re} \text{ für}$

$\sim \text{re} \sim \text{re} \text{ für}$

$\sim \text{re}$

df.  $\text{co.}$

$\sim \text{re} \text{ für}$

$\sim \text{re}$

WP:

$\sim \text{re}$

2/3 Co.

- 6 R D. e. l. d.

# EIN GARTENHÄUSCHEN

was ist 2, 2, 2, 2, 2,  
 2, 2, 2, 2, 2 - 2/2, 2.

was:

~ 2!

4: (2 2)

1, 2, 2 - 2/2, 2!

2, 2!

~ 2/2.

was: (2 2<sup>2</sup> - 2/2, 2/2)

2 2! 2 2, 2!

2/2 2/2 2/2

4: (2/2)

2 2!

2/2 2/2

2 2!

4:

~ 2!

df Co.

- c f j z e.

wp: (nd)

h, - j p, z n.

q:

er, - j p, z n?

wp:

z n x p m d c!

q:

z n x p m d c!

d c!

wp:

e!

wp:

s l p e o!

q - df Co.

wp:

q h z n! Co - ~ z

l e o, e o e n n!

$g^d \rightarrow p_1 \sim p_2$

-  $a_j$  in  $h$ .

$v \sim v \beta^c v$ ,

$\beta^c, \text{con} \sim v \beta^c$ .

1.



# WALD UND HÖHLE

4.

ein 2b, 9 v d v, v d v so,  
er u. 9 v v / v d  
en p l l s p c c i.  
v d v, v v v, j r d v,  
v l l, b / b v, j r d v.  
v d f r e d v d e v,  
v d v, v r d v  
v i v v v l e j f v  
e v l, v v v v  
v v v - d v v v  
v g v y, v d - d v v.  
- c i g r v c e l l - m d,  
v d l g y e d v v  
- d r y e e y e d  
- v l e z v v e v,  
v l e y v / b v v, j d  
v e v b, - v v v  
p r d c e l l v).  
- f t v v v v v  
v l l v v, g v v  
v l e v v, v l l v y  
v d v v v v  
- v e n v v f v d.









Q:

z! z!

df Co. (l)

z! e, d l!

Q:

z! x d l z,

- z! e z c!

l, l, l, l, l

l e, z z l!

df Co.

co - e! b z, e d l,

- z! - z! b e - z.

Q:

z! r s, - c! d - l,

z! b z l, z z

z! z e z z z,

c r l z z.

df Co.

z c, z l e! z z l e!

z z l, e l o c e!

Q:

HP, 201

HP 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

Q:

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

201, 201, 201

- 6/10/21!  
6, 10/10/21, 10/10!  
9, 2, 10/10/21  
21, 10/10/21  
10/10/21, 10/10/21!  
10/10/21, 10/10/21  
- 10/10/21!

10/10/21

10/10/21, 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!  
10/10/21 - 10/10/21!



GRETCHENS STUBE

W: (r, g, e, u)

v → 2,

z z y z;

1 b e b r

- s m.

c, r / 2,

• v e h,

i n y d

• v r d.

z m r l

• v r d,

z m r b

• v f f d.

v → 2,

z z y z;

1 b e b r

- s m.

D r → z 1

f l d 2,

D r → n 1

o 2.

$\sigma_{22} n,$

$\sigma_{e p},$

$\sigma_{v_0} \rho,$

$\sigma_{n p},$

$-\sigma_{e}$

$\mu_0,$

$\sigma_{x_2},$

$-D! \sigma_{v_0}!$

$v_{y \cdot 2},$

$v_{z y \cdot z},$

$1 \rho_0 \rho_0$

$-\rho_0.$

$v_{y_0} \rho$

$\rho_{D \rho_2},$

$\rho_{e l}, \rho_0$

$-2 \rho_0,$

$-\rho_0 \rho_0,$

$-\rho_0 \rho_0,$

$\rho_0 \rho_0$

$\rho_0!$

MARTHENS GARTEN

wmt. G.

wmt:

$\rho v, 2 \rho!$

G:

$\omega_1 \rho!$

wmt:

$\sim \alpha, \sigma \rho \rho! \rho! \rho!$

$\rho \rho \sim \rho \rho \rho \rho,$

$\sim \rho \rho, \rho \rho \rho! \rho!$

G:

$\rho \rho, \rho \rho \rho! \rho \rho \rho!, \rho \rho \rho \rho,$

$\rho \rho \rho \rho \rho!, \rho \rho \rho,$

$\rho \rho \rho \rho \rho \rho \rho \rho \rho \rho \rho \rho$

wmt:

$\rho \rho \rho, \rho \rho \rho \rho \rho$

G:

$\rho \rho \rho?$

www:

D: c, k, o, s, p, r, t!

eg & D/1, 2 in over.

Q:

1 ~ b.

www:

d → w.

1/20, 1/20, 1/20, 1/20, 1/20.

2/20, 2/20?

Q:

2 → 1/2, a, e, l, o, u:

1/20 ~ 2/20?

2/20 → a, c, o, h, u,

- 1/20 → 2/20 → 1/20

3 ~ h, j, o.

www:

— 2/20, 1/20?

Q:

2/20 → 1/20, 1/20, 2/20, 1/20!

a, e, l, o, u, i?

- a, u, i:

» 1/20 ~ 1/20?

a q/c,  
- ) k/c  
/ on: » 1 2 r / ! « ?  
`- r/0,  
`- r/1,  
l0 - r/1  
d, r/1, ) 0?  
c/d ) ` r/1 e e e ?  
d, r/1 r - l0 ?  
- f r l e w e  
d r g r / r ?  
r r / r r r e,  
- r/1 / e o  
D r/1 - r r e,  
- d r m p w e  
f u r b u r r e e ?  
b e e e r y, - l o ;  
- c e r y r ? b o d b,  
r - e, c e r,  
r o r ! r y ! r ! r 1  
r 2 r r r  
e l ! b i e o ;  
r r r - d,  
r r e r r e r y

www:

e:  $\infty \rightarrow \infty - 2_i$   
 $\rightarrow$   $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$ .

U:

-  $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$ !

www:

$\infty - \infty, \infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$ .

U:

$\infty \rightarrow \infty$ !

www:

-  $\infty \rightarrow \infty$   
 $\rightarrow$   $\infty \rightarrow \infty$ .

U:

$\infty$ ?

www:

~ wj, ~ g e l o r,  
• v z h r i n o s o;  
- v z v z m  
- 1 ~ p o z y m  
o ~ w p o p l.

U:

~ G, b l r !!

www:

o m a l u d v e l,  
1 v o d e r w p u;  
m o v o r, o p j z,  
v 1 ~ 2 w p u ~ z h z,  
- 2 / r l ~ z r e j!  
v 1 j o v, o, r p l y!

U:

- w o p z n y m.

www:

- 1 / r o z z h m!  
~ v, ~ e / r z,  
o, m - p o e  
- 2 e p l;  
w o, e, ~ i r n r r d;

-  $g^2 \sim g^2$   
e, /  $v \rightarrow \sigma$   
 $v^d \sim c, z, e, v, v,$   
-  $v, \sim 2 \mu, v, v,$   
-  $\sigma \sim \mu, \mu, v, e, v, v.$

6:

$g \sim g, \sim g!$

www:

$e, v, v \rightarrow \sigma,$   
 $e, c, \sim v, v, v,$   
 $v, \sim v, v, v, v, v.$   
 $D, c, e, i; \sim v, v, v,$   
-  $e, v, v, v, v, v,$   
 $e, v, v, v, v, v \rightarrow \sigma.$

6:

$g \sim v, v, v!$

www:

$v, v, v.$

6:

$D, v, v$   
 $\sim g, v, v, v, v, v$   
-  $6 \sim 6 - \sigma, v, v, v?$



www:

DC1 → ... gl!  
1. P... ..  
2. ... ..  
- ... ..  
1. ... ..

U:

... ..  
... ..  
... ..  
... ..

www:

... ..  
- ... ..

U:

... ..

www:

... ..  
... ..  
... ..  
... ..  
1.

alg. 1.5.

alg. 1.5.

2. 1. 1. 1. 1. 1.

Q:

2. 1. 1. 1. 1. 1.

alg. 1.5.

1. 2. 1. 1. 1. 1.

2. 1. 1. 1. 1. 1.

2. 1. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

Q:

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

alg. 1.5.

1. 2. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

Q:

ε p p - / S e - L z!

alg. Co.

- , b̄ ~ u y 1 b 2 b̄ :  
~ 2 ~ m d ̄ 1, b c o / d,  
~ 2 ~ o h e c o t u v h b̄ ;  
b̄ b̄ , e i n y b̄ ~ z ,  
L c n i l v .  
~ , z z ~ l m !

Q:

con b̄ ~ ?

alg. Co.

z 1 d 2 L e h!

AM BRUNNEN

Wh-Dr 2 v. 2.

Dr:

295 u. 2 p. 2!

Wh:

u. c. l. u. u. u. u. l. u.

Dr:

p. 0, 2 v. 2 v. 2:

1. 2) r. D u. l.

e. e. u. l.!

Wh:

a-?

Dr:

-g. u. l.!

6 l. u. y, c. o. m. b. - h. u. l.

Wh:

D!

2.

— 3 r e d m.  
a r o b n<sup>2</sup> n p m!  
e a ~ p p;  
s e n k - w f g b;  
z b s, k o;  
n - w b r m z g p h - c;  
u d ) c o s r z g ~,  
a d - n o, ) / j z m;  
p r s p p r.  
a ~ p o - ~ p r;  
e i e n d e w t h o!

2.

e n e n!

2.

u s / b d n!  
c i o r p u a,  
I n b i z n / z s o,  
p e b l m l o b;  
s i m m - p e n n n  
o e m ~ p e j r.  
e n n o e ) e n n  
p e n n e h n t o l!

W:

~ 200/100

A:

~ 100/100

~ 100/100

~ 100/100

W:

e. 1/2

A:

~ 100/100

~ 100/100

~ 100/100

1.

W: (100/100)

~ 100/100

~ 100/100

~ 100/100

~ 100/100

~ 100/100

~ 100/100

~ 100/100

~ 100/100

~ 100/100

$2! a \rightarrow 4! D, a - \mu!$

ZWINGER

z z z z ~ obel' m e o, u r a.

**W** g l g u z i r a.

D ~ z,

g z p u z,

e s p u r z r n t!

e z l r z p u,

z l o z p u

w b s j e o o o u e.

j l u w b e y,

- o l y z b e y

z s r o m' - e n t.

a l t,

o o t

' z y u r p u?

o o z n o z y z u m,

o o - p u t, o o u m,

c b → e, → e y n!

e s i, p u r

o o o, o o o, o o o

' u r l o z!



10, D! n-  
1C, 1C, 1C,  
ezyll 2v.

1gk ~ 2ld  
4y 2L, D!  
s1n k 2n  
e 46 10.

g 2 2 2 n  
10 ~ 10 2,  
00 1 2 2 2 n  
2 2 2 4 5.

2! 1 2 3 4 - 4e!  
D ~ 2,  
e 3 4 5 7,  
e 4 2 0 2 2 2 1!

NACHT

fo - W. n

L. n - el, W. lo. i.

c1 - o v r p,

c 2 h ) w r v,

- , p u v ~ l

' 2 h - , f o - ,

2 2 2 0 e - r g d,

~ u d 2 2 g d,

o o , 2 2 b u s,

2 v . 2 g e m j

- f 2 D e r w

- r e - 2 0 / 2 0

- a : » e o n D o n !

n i - R 2 p r e,

1 2 h h 2 l,

1 2 g f e c o v l «

v l ! v l ! n ! n ! e r 2 i

1 - j u : » 2 l,

6 : j 2 p p l «

e s o - 1 - u p i

- ~ ! ~ 2 2 ) g l

- ~ ~ o e 2 g l ! ~

2 p l e r , n o p

o l e r p - r v p p !

°o ~ lozenge  
under foot!  
- 2/16/98  
2/16/1920.

cond 2: coz la?  
1/1, - 2/1/98.  
i, 2/1/1920  
°/100/5' for!

Q. dfg lo.

Q:

o/s' b' e' t' o' v  
s' e' z' o' in d' o' l' e' w  
- p' - p' o' w' e' w,  
- b' t' w' e' r' e'!  
- 2/16/98.

dfg lo.

- v' b' o' r' y' g' o,  
e' ~ l' e' n' g' z' l,  
J' o' e' r' i' z' a' n' f' l;  
v' b' y' w' e' a,  
~ b' o' p' , ~ b' r' e.  
- p' / v' g' p' - z' e  
i' z' e' c' h' e' r' e' l' l.

1.  $\sqrt{5} \approx 2.236$ ,  
2.  $\sqrt{2} \approx 1.414$ .

4:

$\sqrt{2} \approx 1.414$ ,  
 $\sqrt{5} \approx 2.236$ .

alg. 60.

1.  $\sqrt{2} \approx 1.414$ ,  
2.  $\sqrt{5} \approx 2.236$ ,  
3.  $\sqrt{10} \approx 3.162$ ,  
4.  $\sqrt{20} \approx 4.472$ .

4:

1.  $\sqrt{2} \approx 1.414$ ,  
2.  $\sqrt{5} \approx 2.236$ ,  
3.  $\sqrt{10} \approx 3.162$ .

alg. 60.

1.  $\sqrt{2} \approx 1.414$ ,  
2.  $\sqrt{5} \approx 2.236$ .

4:

1.  $\sqrt{2} \approx 1.414$ ,  
2.  $\sqrt{5} \approx 2.236$ .

219

1.  $\int \frac{1}{x} dx = \ln|x| + C$ ,  
2.  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ .  
3.  $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$ ,  
4.  $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$ ,  
5.  $\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$ .  
6.  $\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$ .  
7.  $\int \frac{1}{x^7} dx = -\frac{1}{6x^6} + C$ .

8.  $\int \frac{1}{x^8} dx = -\frac{1}{7x^7} + C$ ,  
9.  $\int \frac{1}{x^9} dx = -\frac{1}{8x^8} + C$ ,  
10.  $\int \frac{1}{x^{10}} dx = -\frac{1}{9x^9} + C$ ,  
11.  $\int \frac{1}{x^{11}} dx = -\frac{1}{10x^{10}} + C$ ,  
12.  $\int \frac{1}{x^{12}} dx = -\frac{1}{11x^{11}} + C$ ,  
13.  $\int \frac{1}{x^{13}} dx = -\frac{1}{12x^{12}} + C$ ,  
14.  $\int \frac{1}{x^{14}} dx = -\frac{1}{13x^{13}} + C$ ,  
15.  $\int \frac{1}{x^{15}} dx = -\frac{1}{14x^{14}} + C$ .

16.  $\int \frac{1}{x^{16}} dx = -\frac{1}{15x^{15}} + C$ ,  
17.  $\int \frac{1}{x^{17}} dx = -\frac{1}{16x^{16}} + C$ ,  
18.  $\int \frac{1}{x^{18}} dx = -\frac{1}{17x^{17}} + C$ ,  
19.  $\int \frac{1}{x^{19}} dx = -\frac{1}{18x^{18}} + C$ ,  
20.  $\int \frac{1}{x^{20}} dx = -\frac{1}{19x^{19}} + C$ ,  
21.  $\int \frac{1}{x^{21}} dx = -\frac{1}{20x^{20}} + C$ ,  
22.  $\int \frac{1}{x^{22}} dx = -\frac{1}{21x^{21}} + C$ ,  
23.  $\int \frac{1}{x^{23}} dx = -\frac{1}{22x^{22}} + C$ ,  
24.  $\int \frac{1}{x^{24}} dx = -\frac{1}{23x^{23}} + C$ ,  
25.  $\int \frac{1}{x^{25}} dx = -\frac{1}{24x^{24}} + C$ .



df lo.

po!

Ln:

ni`llll!

co`e`g',`e`v`n.

df lo. (y l)

foj!

Ln: (ll)

co!

df lo.

ni`Rp!

~n`ll`v`v`j`g`e

e`g`g`~`v`e`f`.

co`v`h`i`C`f`,

o`i`v`g`l`p`y`l`e`.

wp: (n l)

zo! zo!

W: (n l)

x ~ N!

WP: (0-1)

wpf - 0, wpf - 0.

Ln:

wpf - 0!

WP: (20/10)

wpf, 20/10?

WP: (20/10)

wpf?

Ln:

wpf.

WP:

wpf! wpf!

Ln:

wpf! wpf!

- wpf.

wpf! wpf, 20/10?

wpf - 20/10!

wpf.



~ Wh, o! e b 2 L  
b 2 2 / p m  
v k e 2. fl.  
1 o e p 2 L  
e b 2 ~ ~ ~ ~ ~  
— ° D m L!

Wh:

~ L e! 2! c o v e!

L m:

o i' x x 1 e' p o!  
p i e ~ p  
- o - m n, - ° m.  
e b 2 2 ~ ~ ~ ~ ~  
L e ~ ~ ~ ~ ~  
- c d s ~ e y e 2,  
— ° p D, m y g d.

c d, y e' p m,  
' o 2 2 / d / p l,  
- m p ~ z u' L  
r x n l - m i  
L, m 2 2 6 m n e.  
d b 6 n - d) 2 o,  
e n 6 D L n 6 o  
- ° 2 / z u' p.

$\angle 20^\circ$  r.  $\beta$ ,  
 $\angle 20^\circ 60' 00''$ .

$100 \text{ cm} \times 1.5$ ,  
e.  $\angle 100^\circ$ ,  
o.  $\angle 100^\circ$ ,  
 $100, 100!$   $\angle 100^\circ$ ,  
 $100 \text{ cm} \times 1.5$ ,  
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$

**wp:**

$100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$

**Len:**

$100 \text{ cm} \times 1.5!$ ,  
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$   
 $100 \text{ cm} \times 1.5!$

W:

~ le! ct 2 ~ h!

L:

1 0 2, 0, L ~ o!

e e p p h ~ ~ o,

~ v ~ z h ~ z p o.

1 2 1 ~ L e q l

1 2 1 ~ o o e 1 - U.

g d.

DOM

$d, \sim \rho$

W<sub>1</sub> P<sub>1</sub> L<sub>1</sub> ... W<sub>n</sub>

word:

0 1, W<sub>1</sub>, C<sub>1</sub> 0;

0 1 2 - p<sub>1</sub>

2 1 - p<sub>1</sub>

0<sup>2</sup> P<sub>1</sub> P<sub>1</sub>

μ<sub>1</sub> 1,

2 1 2 p<sub>1</sub>,

2 1 2 1 2 p<sub>1</sub>!

W<sub>1</sub>!

C<sub>1</sub> P<sub>1</sub> 1!

2 1 2 p<sub>1</sub>

C<sub>1</sub> P<sub>1</sub> 1!

1 2 1 2 0, 1

1 2 1 2 0, 1 2 1 2 0!

1 2 1 2 0 1?

1 - 1 2 1 2 0

1 2 1 2 0

- 1 2 1 2 0 - 1

1 2 1 2 0 1?

W:

cs! cs!

~ i p m ~,

, v r s - 2 s r

E v!

L:

Dies irae, dies illa

Solvat saeculum in favilla.

~ ~ ~

W 2 b:

n. b. d!

, C o L!

, h u!

- e z y,

o p u

j b u

E s y h,

u s!

W:

~ , r o!

v ; o r i ~ r v

~ n o f,

p r z y

*Handwritten cursive signature.*

*2.*

Judex ergo cum sedebit,  
Quidquid latet adparebit,  
Nil inultum remanebit.

*Handwritten cursive signature.*

*Handwritten cursive signature.*

*Handwritten cursive signature.*

*Handwritten cursive signature.*

*2.*

Quid sum miser tunc dicturus?  
Quem patronum rogaturus?  
Cum vix justus sit securus.

Uo 26:

r d o e

w r t e r a.

i x e o r j r h,

z e r ~ w r.

o s!

2:

Quid sum miser tunc dicturus?

22:

r d e r ! — z l p h!

o l e z — r d.

WALPURGISNACHT

27.11.1970

4.11.1970

11.11.1970

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11.11.1970  
11.11.1970



abgibt, paring  
° ~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
entst, ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
co-eg - ~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~

*Ab:*

o ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~

*ab Co:*

! ! ! ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
o ~ ~ ~ ~ ~

*Ab:*

~ ~ ~ ~ ~  
-- ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~

U, v, w, N: (p d o p r)

z, h - p d r

z, j, l, m

h, j, n - v o r

e r - a l e p r

z ~ c, h, u!

o, l, r, d, l, w

o b j, u, s, m,

- i, n, h, i, j, u, m,

- i, n, l, e, n, s,

o b j, u, h, o b j, u, s!

p, f, p ~ v o

- i, d - d, r.

z, i, y, z, i, d, r?

z, i, z, e, l, o, n, s,

p, u, l, r, d, e, n, s?

c o r, z, h, c o r, t, u!

- e, d, o, i, a

z, j, z, i, z, e.

z, j, z, i, z, e, l, o, n, s,

z, i, z, e, l, o, n, s,

z, o, b, j, e, k, t?

z, e, r, d, e, f, f, z?

z, u, l, o, n, s!

- i, o, p, o, s, i, t, i, o, n,

oer) o lo - oe,  
fu cer ue,  
1/ fu, 1/ bu;  
o ut er von  
fu o (blon  
D<sup>2</sup> oer - 1, 2  
soch, juco,  
pezo - p, 2 e!  
- , bu or bu  
2 p<sup>2</sup> g<sup>2</sup> p<sup>2</sup>  
juce, /

u or, 1/ p<sup>2</sup>  
u 1/ c<sup>2</sup> v<sup>2</sup>?  
oo, oo p<sup>2</sup> / p<sup>2</sup>,  
lo - u, i, p<sup>2</sup>  
p<sup>2</sup>, - , m, p<sup>2</sup>,  
i) m, i) u.

df lo.  
loer v p<sup>2</sup>!  
x - ~ v<sup>2</sup>  
c u p<sup>2</sup> o,  
o p u v<sup>2</sup> v<sup>2</sup>.





g:

1.  $\sqrt{u} \sim v$

6.  $\sqrt{u} \sim v$

2:

—  $\sim u, u \sim v!$

by  $\sim!$  —  $\sim v!$

$\sim v$  —  $\sim u!$

es  $\sim!$  —  $\sim v!$

g:

ch  $\sim u \sim v, v?$

g:

in  $\sim v!$

es  $\sim!$  —  $\sim v!$

1.  $\sim u \sim v!$

g:

—  $\sim u \sim v!$

es  $\sim!$  —  $\sim v!$

g:

1.  $\sim u \sim v!$

es  $\sim!$  —  $\sim v!$

Sh, 2:

ci: ✓, ci: ~,  
co: el ~ Lu ~ r?  
in: gl, lo: rj,  
en: ce: gl, in: ce: gl.

Sh 6, 2er 2:

1. gl ~ ci, gl ~ ce,  
1. cu ~ e ~ e  
en, in ~ j ~ lo ~ 2,  
e ~ ce ~ ce ~ gl ~ e

re 2ff:

1. cu ~ el ~ r,  
2. ce ~ gl ~ ce ~ b,  
2. ce ~ gl ~ ce ~ r,  
2. ce ~ gl ~ ce ~ r.

gl: (L ~)

~ / 2, ~ / 2, S ~ r!

gl: (L ~)

1. cu ~ m ~ 2 ~ 2,  
1. ce ~ gl ~ ce ~ 2 ~ 2,  
in ~ ce ~ gl ~ ce





12/28 ~  
- ~ ~ ~ ~

*2i*

1. od ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

*ve*

- ~ ~ ~  
- ~ ~ ~  
- ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

*df*

e ~ ~ ~  
e ~ ~ ~  
e ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

*Q*

~

df Co.

co. e / j 2 y 0?

er<sup>c</sup>, 26 ll 0 2 0.

Gj. Lu Lu n v. Gj. 0 Lu, Gj.

x, e, lo v! - n z r of

o 5 0<sup>2</sup> p x 2;

- j Lu, - n l v 2.

e h n u co l n y 0 z,

- p v co n l u f 2

n, n! r g h e z.

6:

er 2 6 0 0 0! - j e r d v l n.

r e n d, e a n n p l:

j l n o e n r i c h n n l,

r 5 l n 2 6 j p n.

df Co.

er 0 - , d l w l n!

- i n 2 n n l n.

R n n i n l n.

6:

d e n v l n n o!

j o r 2 7 - o l n l.

e l f d, n j<sup>2</sup> l o;

e r o j n l o v o.

df Co.

duh... m... ) D.

o... d... d... o...

r... r... r... r...

- d... r... d...

e... d... d... m... d... d...

e... d... d... d... d... d...

- d... d... d... d...

e... d... d... d... d...

v... m... d... d... d...

r... d... d... d... d... d...

d... d... d... d... d... d...

r... d... d... d... d... d...

r... d... d... d... d... d...

- r... d... d... d... d...

c... o... d... e... d... e... m... m... m... r...

e... d... d... d... d... d... d... d... d...

- r... d... d... d... d... d... d... d... d...

r... d... d... d... d... d... d... d... d... d...

r... d... d... d... d... d... d... d... d... d...

U:

- e... d... d... d... d... d... d... d... d...

e... d... d... d... d... d... d... d... d...

df. 60.

g u 10 p l, n w t j r 2,  
d b a z m n o r e o 2.

~ n w e j 2 1 p l 2,

d · b e l o x m j 2.

b e j z r e s t b n d z y r 2;  
z m e b e p l

z b v j c o y 2.

c 1 D -, u 2 i x p l.

n i t ! s l e z m r j l e,

1 u · c u r, - e y b · l u.

j s h, i 2 n w e n e n o f:

r s z n, c o d l r x n r e?

1 s d j, c 1 j a y i 2 l e,

s o o r y p l - h r e b i

m e n i t e r h j 2.

200:

c u r s n r ~ h!

w a 2 j l o p i;

e u 2 l n o u ~ h

j i m l, h r e n n.

201:

j f · w s 2 s h y c,

1 s v, z n s;

e l, e s e o 2,

exam. 12/17/17.

Exam:

randomly  
- in  $\mathbb{R}^n$ ,  $\cos \theta$ ;  
-  $\partial f(x) = \{0\}$   
-  $\text{rank} \nabla^2 f(x) = n$ .

2:

convexity -  $\mathbb{R}^n$   
Subgradient!  
-  $\text{conv} \{x, y\} = \{tx + (1-t)y\}$ ,  
e.g.  $\text{conv} \{0, 1\} = [0, 1]$ .

alg. (15-20-17)  
-  $\text{rank} \nabla^2 f(x) = n$ ,  
-  $\text{rank} \nabla^2 f(x) = n$ ,  
-  $\text{rank} \nabla^2 f(x) = n$ ,  
-  $\text{rank} \nabla^2 f(x) = n$ .

Leib:

randomly -  $\mathbb{R}^n$ !  
bipartite!  
maximal  $\mathbb{R}^n$ ,  
-  $\text{rank} \nabla^2 f(x) = n$ .  
-  $\text{rank} \nabla^2 f(x) = n$ ,  
-  $\text{rank} \nabla^2 f(x) = n$ ,

$e_1 \sim e_2$  /  $\text{Bogen}$   
 $\sim \text{Bogen} - \text{Dreh}$   
 $\sim e_1 \cdot x, S^2 / \text{Bogen}$   
 $\sim e_1 \cdot x^2 / \text{Bogen}$   
 $\text{Bogen} \sim \text{Bogen}$   
 $\sim z_1, 1 \sim \text{Bogen}$   
 $\text{Bogen}, \sim z_1, e_1 \sim \text{Bogen}$   
 $1 \text{ Bogen} \sim \text{Bogen}$

*elf*

$\text{Bogen!} \sim \text{Bogen!}$   
 $\text{Bogen!} \sim \text{Bogen!}$   
 $\text{Bogen!} \sim \text{Bogen!}$   
 $\text{Bogen!} \sim \text{Bogen!}$

*6:*

$e_1 \text{ Bogen} \sim \text{Bogen!}$   
 $e_2 \text{ Bogen} \sim \text{Bogen!}$

*elf*

$\text{Bogen!} \sim \text{Bogen!}$   
 $e_1 \text{ Bogen!} \sim \text{Bogen!}$

*6:*

$e_1 \cdot e_2$

df lo.

M b ps!

P. e.

Q:

a?

df lo.

ee & h.

~ p z, R ~ m z ~ z ~ z,

~ p z, z' z ~ p h.

~ e e ~ h ~ z ~ z,

~ b o ~ e / e h.

Q:

es of y, i, s' z' h i

i z z c o s b p i!

df lo.

e z ~ z ~ z ~ z.

~ u j ~ z h y, ~ z ~ z' / z h y.

Q: (z' h ~ h y c)

~ d i ~ z ~ z ~ h

~ e o ~ z ~ h e,

~ j ~ z ~ h ~ z ~ z,

~ b ~ j ~ z, ~ j ~ z ~ z.

1.2:

1.2.1.1  
- 2.5.1.1  
1.2.1.2  
1.2.1.3

1.2.1.4 (1.2.1.4)

1.2.1.5  
1.2.1.6  
1.2.1.7  
1.2.1.8

1.2.1.9:

1.2.1.10  
1.2.1.11  
1.2.1.12  
1.2.1.13

1.2.1.14:

1.2.1.15  
1.2.1.16  
1.2.1.17  
1.2.1.18

1.2.1.19: (1.2.1.19)

1.2.1.20



Q: (Lyc)

! n s.

Co e h p, 20 - p p.

n / ten p p p,

- p - y o / p.

n z b n w r, - u e r - u r n.

c r - p r n o m - d,

o s z o - d v y

e s o' - e l u o d y

\* c r n e r p o d.

Exhibit:

r - e p m e s t n, e i p s d.

p e i d! r z h g r d!

e l e l e, - h n d n r n

r z - n n, - e d p z n.

o n o, / n o z o p d,

- s' m; e i d p s d!

z:

- z d d s, s x / n d!

Exhibit:

r o o - z b n o p:

~ z b e p n o - e, /;

z z b n r / B y n.

- 1/4

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

1/2

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

1/3, 2/3, 1/4, 2/4, 3/4, 1/5, 2/5, 3/5, 4/5, 1/6, 2/6, 3/6, 4/6, 5/6, 1/7, 2/7, 3/7, 4/7, 5/7, 6/7, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 1/9, 2/9, 3/9, 4/9, 5/9, 6/9, 7/9, 8/9, 1/10, 2/10, 3/10, 4/10, 5/10, 6/10, 7/10, 8/10, 9/10

1/4

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

1/2

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Q:

$\ln 0, 1, \infty$

df Co.

Co?

Q:

df, b, e, e

$\sim \ln 0, \ln 1, \ln \infty - \ln p^2?$

$b, p, \ln \rightarrow \ln$

$b, p, \ln \rightarrow \ln$

$\ln 0, \ln 1, \ln \infty$

$e, b^2, \ln \ln$

df Co.

$\ln \rightarrow \ln$

$\ln \rightarrow \ln$

$\ln \rightarrow \ln$

$\ln \rightarrow \ln$

$\ln \rightarrow \ln$

$\ln \rightarrow \ln$

Q:

$\ln, \ln, \ln$

$\ln, \ln, \ln$

$\ln, \ln, \ln$

$\ln, \ln, \ln$

df. 60.

e, p, q, r, s, t, u, v, w, x, y, z  
enters to 60 on the

Q:

d - c - ! d - e -  
in 500/200  
0 d r 20 9 r z 20  
~ ~ p ~ 20 p h z 20  
V o ~ 20 m!

df. 60.

2y 11, 10, 10, 10  
6 r e d d h r h  
e l o o 20 r 4 p h  
~ ~ p q f c  
~ ~ d e x h 2  
x p - f o p h  
- 2 2 2 2 / y h  
- o 1 c ~ h  
c o r d e e?

df. 60:

2 W 2 E  
~ ~ 20 p, e, f, g, h  
T y m i s - 10,  
~ o h 2 - p h

- entgeg.

$\gamma, \sqrt{2}, c_1$  etc  
Dort, ~ in sp.

df. Co.

$c_1 \rightarrow s^2$  usw. etc;  
etc, etc, etc, etc, etc.

# WALPURGISNACHTSTRAUM

er

mo-wo  
zwei

my

unb:

z z' n o,  
v' c' n o v.  
f w - l o l o,  
e i n f g r!

z u:

e i n f z e r t,  
z i l l p h o n u s;  
n i f u,  
e z e i v u.

u i:

e r z o, c i v,  
- f z e n g e i  
n d - i n n e,  
b z o n s u e i

Q:

$\sim d \cdot (n-1)E$   
 $- z^2 \sim b_0 \rho \sqrt{z_i}$   
 $z \sim n z^2$   
 $) D^2 \rho / L^2 z_i$

~:

$\sim \omega d \sim a$   
 $z^2 \sim n L z_i$   
 $L \rho \sim \omega n$   
 $d \sim D, z \sim$

~:

$n, i) \rho \sim$   
 $n \rho \sim L z_i$   
 $c) \rho \sim n$   
 $L \rho \sim z \rho$

~:

$z \sim n - z^2, L$   
 $- b_0 \sim \omega c$   
 $L \rho \sim D^2 \rho b_i$   
 $- \sim \sim \sim \omega c$

~: (Lub)

$L \rho \sim \omega n$   
 $z \sim n \omega$

by  $\rho_1 - \rho_0$ ,  
 $e^2, \sqrt{e}$ !

—:

$\sigma, \epsilon, \nu, \epsilon, \sigma!$

$\cdot, \sigma, \epsilon, \sigma.$

$2\sqrt{\sim} \rho_1 \rho_2 \rho_3$

$\rho_0 \rho_1 \rho_2$

$2\sigma, \rho_1, \rho_2!$

$\rho_0 \rho_1 - \rho_2 \rho_3$

$- \rho_1 \rho_2 \rho_3!$

$\rho_1 \sim \rho_2 \rho_3 - 1,$

$\rho_2 \rho_3 \sim \rho_1.$

$\sim \rho_1:$

$\rho_1 \rho_2 - \rho_3 \rho_4$

$\rho_2 \rho_3 - \rho_4!$

$\rho_1 \rho_2 \rho_3 \rho_4$

$\rho_1 \rho_2 \rho_3 \rho_4!$

$\sim \rho_1 \rho_2 \rho_3:$

$\rho_1 \rho_2 \rho_3 \rho_4!$

$\rho_1 \sim \rho_2 \rho_3$

$\rho_1 \rho_2 \rho_3 \rho_4!$

$\rho_1 \rho_2 \rho_3 \rho_4!$



red:

~ ~ ~ ~ ~  
D, d, o, f, l.  
- u, r, n, h, o, e,  
- i, n, ~ l.

red:

co, n, l, e, z,  
l, a, ~ o, f, c, o,  
d, i, w, ~ d, i, f,  
j, a, n, g, ~ o.

red:

D, i, r, p, o, l, d, o,  
o, i, r, p, e, l,  
- s, i, n, g, l, e,  
z, y, ~ f, e, l.

red:

'c, i, ~ o, ~  
l, d, ~ c, o, d, e,  
h, o, ~ n, d, s, ~  
- f, ~ e, ~ o, ~ d, e.

red:

r, e, ~ f, ~  
r, e, ~ f, ~

22.1.1.1.1.1  
- 1.1.1.1.1

1.1.1.1.1

1.1.1.1.1  
1.1.1.1.1  
1.1.1.1.1  
- 1.1.1.1.1

1.1.1.1.1

1.1.1.1.1  
1.1.1.1.1  
- 1.1.1.1.1  
1.1.1.1.1

1.1.1.1.1

- 1.1.1.1.1  
1.1.1.1.1  
- 1.1.1.1.1  
1.1.1.1.1

1.1.1.1.1

1.1.1.1.1  
1.1.1.1.1  
1.1.1.1.1  
1.1.1.1.1

2. 20:

0, 0 6 2 2 2 2  
2 2 2 2 2!  
2 2 2 2 2 2,  
6 2 2 2 2.

201:

1 2 2 2 2 2  
2 2 2 2 2 2;  
2 2 2 2 2 2,  
2 2 2 2 2.

21-22 201:

2 2 2 2 2 2  
2 2 2 2 2!  
2 2 2 2 2 2,  
2 2 2 2 2.

22-23 201:

2, 0 2 2 2 2 2  
2 2 2 2 2.  
2 2 2, 2 2 2 2 2.  
2 2 2 2 2 2.

23:

2 2 2 2 2 2  
2 2 2 2 2 2;



ენონ:

1. ბ. ბ. / ბ. ბ.,  
1. ბ. ბ. ბ. ბ.  
~ ბ. ბ. ბ. ბ.;  
0.2. ბ. ბ. ბ. ბ.

უბ:

1. ბ. ბ. ბ. ბ.  
~ ბ. ბ. ბ. ბ.  
ბ. ბ. ბ. ბ.;  
- ბ. ბ. ბ. ბ.

უბ:

ბ. ბ. ბ. ბ.  
- ბ. ბ. ბ. ბ.;  
1. ბ. ბ. ბ. ბ.  
1. ბ. ბ. ბ. ბ.

ბ. ბ. ბ. ბ.:

2. ბ. ბ. ბ. ბ.  
- ბ. ბ. ბ. ბ.;  
ბ. ბ. ბ. ბ. ბ.  
5. ბ. ბ. ბ. ბ.

ბ. ბ. ბ. ბ.:

ბ. ბ. ბ. ბ. ბ.  
- ბ. ბ. ბ. ბ. ბ.

slb sl-jb-;  
ev, RRG.

slb:

ly R<sub>1</sub>-b R<sub>0</sub>,  
slb!  
lpy-vms,  
1-222!

1, p<sub>0</sub>:

ob [Sanssouci], — 26e2  
S. p. p. l;  
s ~ b<sup>o</sup> r<sub>0</sub>/v,  
k<sub>2</sub> r<sub>1</sub> s ~ r<sub>0</sub>.

1, p<sub>1</sub>l<sub>0</sub>:

o d<sub>2</sub> r<sub>2</sub> l<sub>0</sub> p<sub>1</sub> l<sub>0</sub>,  
~ r<sub>1</sub> r<sub>1</sub> l<sub>0</sub>!  
± p<sub>2</sub> l<sub>0</sub> l<sub>0</sub>,  
r<sub>1</sub> l<sub>0</sub> r<sub>1</sub> o<sub>0</sub>.

slb:

l<sup>2</sup> o<sub>2</sub> ~ r<sub>1</sub>,  
c<sub>0</sub> r<sub>1</sub> l<sub>0</sub> p<sub>1</sub>;  
l<sup>2</sup> r<sub>1</sub> l<sub>0</sub> p<sub>1</sub> r<sub>1</sub> r<sub>1</sub>  
l<sub>0</sub> p<sub>1</sub> r<sub>1</sub>.

mpc:

$\sigma^2 \approx 2 \cdot 10^{-10}$

$R_{gr} = -L_{gr}$

$R_{gr} \approx R_{gr} \approx L_{gr}$

ca  $\approx 2 \cdot 10^{-10}$ ?

rb:

$G - G' = \sqrt{2} \cdot 10^{-10}$

$\approx 10^{-10}, 2 \cdot 10^{-10}$

$2 \cdot 10^{-10}, 2 \cdot 10^{-10}$

$6 \cdot 2 \cdot 10^{-10}$

G:

$M_1 - 2 \cdot 10^{-10}$

$\sigma \approx 10^{-10}$

$\approx 10^{-10} \approx 10^{-10}$

$\approx 10^{-10}, 10^{-10}$

rb:

$u, u \approx u,$

$u \approx 2 \cdot 10^{-10}$

$L_{gr} \approx L_{gr}$

$5 \cdot 10^{-10}$

rb: (arb)

comp - r

den) / u.

$\mathcal{H} \rho_{\mathcal{A}} - \mathcal{D} \rho_{\mathcal{A}}$ ,  
- eff. w.



TRÜBER TAG. FELD

U. d. f. Co.

U:

re! glce! wa s' re n N-~ br! o v m r  
m j sja l e n ~ p l, e z e p l p l! e a! e a! m  
m p; r o m z b, - e o y v s d! m p t, p! c f,  
L b n z d m e r n l z! p - y v e p h n e d! br! r  
p l m r e! l o z b s m - i b e n b o w p! - v d e y z  
z y g t f f z, w d v m d e n h - b o z l o e m!

U. d. f. Co.

b. i. d. l.

U:

re! w z o p! m o e r, e p e n z b! o e ~ a - r e z o z e p l,  
o . ) l l h a c b, - v g l z, z w a o o e - , l o j  
m m - ) z e p p e s, z m j z m . o e r e z o l o v e, e .  
- v r o e s z o r t, r z l o h, ~ e h n! m » i d l! « m  
h! h! I m w g o j l o, e r o - p l z, l h o s e o  
o, e l e t p m l, z e - s h z o o e n l e o t ~ z o  
o y p e! v d, m - m e, e s e r p h m e y h o b, o x e  
p o s l o e z!

alg. lo.

~ 17 E ~ 17 f 30 c p, e, c ~ 17 p 1 6 s p l. cu 17 b e  
p 1 7 5 c y 6 / d m n 2 - b m - b i g e / b 2 e m 1 5 e  
s, - e y d 1 2

q:

l q e b 1 7 p v / - m 1 v n 1 m 2 0, 2 m 2 b, ' e v /  
y n d e f, ' e 2 2 y m b - 2 o, c u 2 ~ y e p m 1 7 z e i,  
) a z e c e i - a e e n ) f 2

alg. lo.

red. e?

q:

~ 6! - e c o e! ~ 10 6 1 7 4 d 5 h o c!

alg. lo.

1 n, 1 v e 0 1 2 / o, 6 1 2 / h u. m ~ 1 6! « m c u c o, ' 6 1 0  
e n g f 2, - e y?

q u / o e p.

alg. lo.

1 7 b e, 1 2 e n 2 c, e, ~ 1 7 e n g l a / p u o e! ~ 1 7 o 1  
m i e r / p m, e - m u d, ) 2 e n 2 1 1 / 1 2.

Q:

Wird 2!6°L o!

Uf Co.

- , für 'e d'ogbi d, 2 d's' g'd wpe l e x. 8° g'm  
f'z g'm' d'e 2 b' - m's ~ Ew'e 2 e.

Q:

De l'er? 2 e - L e - d' s' d' p' 2' l' b' d' 2, 0, 1, - d' 6.

Uf Co.

1 b' d', - c o 1 L n, 2 v! 2 1 - d' R 2 2 - s r e 2 ° m o 6 - 1  
v m e, u l l' d' - p' - b' 6 2 0 2 2 p' d' 1 d' 1, p' l' e 2 w / , 1  
d' s' . e m 1.

Q:

s - d'!

NACHT, OFFEN FELD

$\mathbb{Q}$ ,  $\mathbb{R}$ ,  $\mathbb{C}$ ,  $\mathbb{H}$ ,  $\mathbb{O}$

$\mathbb{Q}$ :

$\cos, \sin, \tan$

$\mathbb{R}$ :

$\cos, \sin, \tan$

$\mathbb{C}$ :

$\cos, \sin, \tan, \exp, \ln$

$\mathbb{H}$ :

$\cos, \sin$

$\mathbb{O}$ :

$\cos, \sin$

$\mathbb{O}$ :

$\cos, \sin$

KERKER

Q2  $\sim \log p - \log a, \sim \log m \log k.$

Q:

$\log b \sim \log x \log y,$

$\sim \log y \log b \log p$

$x \sim \log a \log x \log y$

$\sim \log a \sim \log c$

$\log a, \log x \log y!$

$\log b, \log y \log p!$

$\log x \log y \log z \sim \log z.$

$\log a \log z \log p - \log x \log y:$

$\log x, \log y$

$\log y \log z!$

$\log x, \log z$

$\log x \log z!$

$\log z \log x \log y$

$\log x, \log y$

$\log x \log y \log z;$

$\log x \log y \log z \log x \log y;$

$\log x, \log y!$

Q: (276)

6 ~ 1, e ~ f, g,

1 ~ 2, e ~ f, e ~ g.

~ h ~

www: (1) s ~ m ~ n ~ o

o! o! 6 ~ n. h ~ e!

Q: (10)

g! g! 1 ~ 2, d ~ e.

www: (1) ~ ~ 2 ~ 3

6 ~ 2, ~ 6 ~ 1.

Q:

e! d ~ 2 ~ 3 ~ 4

~ 6 ~ n, 6 ~ g.

www: (1 ~ 2 ~ 3)

a ~ o ~ 2 ~ 3 ~ 4

~ 4 ~ 5

e ~ 2 ~ 3 ~ 4 ~ 5

~ 6 ~ 7 ~ 8

9 ~ 10 ~ 11 ~ 12

6 ~ 15.

o, d ~ 2 ~ 3 ~ 4

~ 5 ~ 6

zurück, -earr  
sailonic;  
für die, in der  
Welt - p<sup>2</sup>!  
zurück, -earr  
Welt, mola,  
zurück, -earr!

Q:

c<sub>1</sub> ~ h<sub>1</sub> p<sub>1</sub>!

www:

10 ~ h<sub>1</sub> p<sub>1</sub>!  
Welt - h<sub>1</sub> p<sub>1</sub>!  
12 h<sub>1</sub> p<sub>1</sub>!  
6 h<sub>1</sub> p<sub>1</sub>!  
- a ~ 1 - h<sub>1</sub> p<sub>1</sub>!  
- h<sub>1</sub> p<sub>1</sub>!  
6 h<sub>1</sub> p<sub>1</sub>!  
~ h<sub>1</sub> p<sub>1</sub>!  
a ~ h<sub>1</sub> p<sub>1</sub>!

Q: (all) p

~ h<sub>1</sub> p<sub>1</sub>!  
h<sub>1</sub> p<sub>1</sub>!

www: (all) / 10

— 05 m, 2 m pl!

0! 5 m pl

5' zu

01, 2 w!

— 10,

26— 1000,

10 ~ 10!

Q: (1)

10! 10!

www: (sua)

ea° 100 pl!

0 pl 5. 1000 1000

C: 1000 1000

1000! 1000 1000

~ 1000 → 1000,

~ 1000 1000!

— 1000! — 1000 1000

2000 — 1000 1000,

1000 ~ 1000, 1000 1000

1000 ~ 1000, ~ 1000 1000

Q:

1000!



www:

g b! - a - 2 - u!  
~ b^c . b! . b! c a : e b?  
c a , n d ^ o m m s ? \ n h ?  
g b! ~ d , v p j n .  
1 u m !  
j , f o e e  
s \ i p j b z o  
- \ z ~ w  
c , - w a e a w

U: (fvc)

~ u ! ~ u !

www:

- c  
c , d - m , c g c b .  
m o c .

U:

- !  
c g / - b  
c o l - u o v o .

www:

d i e n / u n o ?  
u b o - r y s u d u l

- 20 10 10 10

10 10 10 10 10

10 10 10 10 10

10 10 10 10

10 10 10 10 10

10 10

10 10 10

10 10

10 10 10 10

10

10 10

10

10 10 10

10 10 10

10

10 10 10 10 10

10 10 10 10 10

10 10 10 10 10

10 10 10 10

10 10 10 10 10

10

10 10 10

www:

erbb, looo,  
 nderp, erzo.  
 and, ee, d - v / z b?  
 - c b e r, u l e, c e y d b?

6:

nd, n / z c b, d n.

www:

v u n, n y l l,  
 u n e o, i h t.  
 a - l e - v p u t?  
 e r D. m e y b! , n - n.  
 r e x e! : i n h!  
 e r x e! m D, u b l!  
 o f o a! o v e r,  
 i b h.  
 D r z! c o r e y p!  
 g r ~ e n ~,  
 i u t d b!

6:

o e m m m o,  
 e r b d r.

www:

~, 92682w!  
 1-0, kdfu,  
 l, 2690m  
 2/2m;  
 ~m ~ 6 Gm,  
 2/6 → 2m,  
 2 ~ 2/2,  
 ~ / 2 / 2!  
 - em v ~, 2/6.  
 ~ 2/2 ~ 2/2 ~  
 2/2 ~ 2/2,  
 ea ~ 2/2, ~ 2/2!  
 ~ - v / 2 / 2;  
 v 2, 2/2, 2/2 / 2;  
 2/2 ~ 2/2 / 2;  
 - 2/2 ~ 2/2 ~ 2/2.

6:

2/2, 2/2 - 2/2, ~ 2/2!

www:

2/2?

6:

2/2.

www:

· e h e o,  
 2/`L e, - r u!  
 S r 10 d r 2 u  
 - c n p  
 e r b n l? - 2 u p, 2/12!

6:

e r ! - - - !, r p l u!

www:

1 e r l l; l v p . 9 / 2 l u  
 c o 2 l l, l b i b s u n d v s.  
 i - r e, u n j v o  
 - 2 e y r u a p o!  
 i - r e, i h e z l u  
 - b e r v p d l l u!

6:

1 b r l e r

www:

o e ! o e !  
 r e n o r t e !  
 p ! m ~ o r  
 n d a s,  
 s ~ p,

$z \sim \alpha z$ ,  
 $m, c, \text{length}$ ,  
 $n \checkmark$ .  
 $l_0 \rightarrow \checkmark!$   
 $- \rightarrow \alpha$ ,  
 $- \mu \checkmark!$   
 $\checkmark! \checkmark!$

Q:

$w \checkmark \checkmark!$   
 $\rightarrow \checkmark, - \checkmark \checkmark!$

www:

$c \checkmark \checkmark \rightarrow \sim w \checkmark!$   
 $e \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$ ,  
 $- \checkmark \checkmark \checkmark \checkmark \checkmark!$   
 $e \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$   
 $- \checkmark \checkmark \checkmark \checkmark$   
 $\checkmark \checkmark \checkmark \checkmark, \checkmark \checkmark \checkmark \checkmark, \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$ ,  
 $\checkmark \checkmark \checkmark - \checkmark, \checkmark \checkmark \checkmark \checkmark$ .  
 $\checkmark \checkmark \checkmark, \checkmark \checkmark \checkmark \checkmark \checkmark$   
 $- \checkmark \checkmark \checkmark \checkmark!$

Q:

$\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark, \checkmark \checkmark \checkmark \checkmark \checkmark$ ,  
 $- \checkmark \checkmark \checkmark, \checkmark \checkmark \checkmark \checkmark$ .

www:

o v! ~, ~ e n p!  
b o v! ~ v e b!  
o d, ~ e h e o p!

q:

\ n h! ~ h! ~ h!

www:

n! h, - 'n! ~ f n e d 2;  
~ e f n d, ~ o!  
o ~ v e, e e j ~ h e d.  
o ~ v ~ n y!  
- i ~ n p!  
r ~ e ~ e o;  
n / ~ v ~ y.  
, ~ v ~ n ~, ~ e ~ d ~ b!  
\ G, ~ v o  
~ o / b o.  
, ~ v ~ n ~, e e f ~ h e d.  
o b v ~ n ~ - ~ n!  
j ~ v ~ n ~, ~ j ~ n d.  
j ~ h ~ d ~ t ~ e ~ n ~  
, ~ j ~ h ~, ~ n ~ d ~ v ~ n p!  
j ~ n ~, ~ d ~ o ~ e ~ h!

Q:

→  $C_{12} \sim \mu$

df Co. (y/Co)

→  $e \sim \mu$

→  $\mu \sim \mu$

→  $\mu \sim \mu$

→  $\mu \sim \mu$

www:

→  $e \sim \mu$

→  $\mu \sim \mu$

→  $\mu \sim \mu$

→  $\mu$

Q:

$e \sim \mu$

www:

→  $\mu \sim \mu$

df Co. (y/Co)

→  $\mu \sim \mu$

www:

→  $\mu \sim \mu$

→  $\mu \sim \mu$



wt / r, r, r, uan!  
2w! v / 4 - 0.

rlf lo.

6 / r / u!

rlf: (J m)

i / m!

rlf lo. (j / 4)

2 / v!

rlf 2 / 4.

rlf: (J m, 2w / 0)

2w! 2w!







