```
bin[z_{,k_{]}} := Product[z - j, {j, 0, k - 1}] / k!
f[n_{, s_{, k_{, l}}} := Sum[(-1)^{(j+1)}j^{-s}f[n/j, s, k-1], {j, 2, Floor[n]}]
f[n_{, s_{, 0}}] := 1
zeros[n_{,s_{]}} := List@@Roots[g[n, s, z] = 0, z][[All, 2]]
Expand[g[900, 0, z]]
  13 753 z 253 619 z^2 6 854 461 z^3 70 447 z^4 5161 z^5 1271 z^6
                                                          2983 z^{7}
                                                                  41 z^8
                       90 720
                                  1920
                                           540
                                                   960
                                                          30 240
                                                                  13 440 45 360
N[zeros[10000, N[ZetaZero[1]]]] // TableForm
-0.056997 + 0.256175 i
0.993717 - 0.00552038 i
1.22366 - 4.3064 i
1.86509 - 0.0871545 i
2.15019 + 4.33561 i
2.78845 - 0.368826 i
2.87575 + 0.156775 i
3.01969 + 15.2867 i
9.93096 - 1.25319 i
14.6253 - 2.87026 i
38.4628 + 54.5394 i
54.7341 - 21.7694 i
116.761 - 712.137 i
0
ffast[n_, 0, s_, a_] := UnitStep[n-1]
ffast[n_1, 1, s_2, a_1] := ffast[n, 1, s, a] = frange[Floor[n], s] - frange[a, s]
ffast[n_, k_, s_, a_] := ffast[n, k, s, a] =
  N[Sum[Binomial[k,j] (m^-s (-1)^(m+1))^j ffast[Floor[n/(m^j)], k-j, s, m],
    {j, 1, k}, {m, a+1, Floor[n^{(1/k)]}]}
zerosfast[n_s, s_] := List@@NRoots[gfast[n, s, z] == 0, z][[All, 2]]
zerosfast[10000, 0] // TableForm
0.00691499
1.38296 - 0.491005 i
1.38296 + 0.491005 i
2.75946 - 0.210986 i
2.75946 + 0.210986 i
5.37564 - 9.06206 i
5.37564 + 9.06206 i
10.2876
31.0016 - 28.5431 i
31.0016 + 28.5431 i
32.6661
824.
```

```
(*Table[{ FullSimplify[(D[g[n,s,z],z]-D[g[n-1,s,z],z])/.z\rightarrow 0],}\\
                 (Full Simplify [MangoldtLambda[n]/Log[n]-If[ Log[2,n]==Floor[Log[2,n]],n/Log[2,n],0]])\\
                    n^-s, \{n,2,40\}]//TableForm*)
\label{eq:theta_n_k} \texttt{theta}[\texttt{n}\_, \texttt{k}\_] \; := \; (\texttt{1} + \texttt{Floor}[\texttt{Floor}[\texttt{Log}[\texttt{k}, \texttt{n}]] - \texttt{Log}[\texttt{k}, \texttt{n}]]) \; \texttt{n} \, / \, \texttt{Log}[\texttt{2}, \texttt{n}]
\label{eq:table_problem} \textbf{Table}[\{\,\texttt{FullSimplify}[\,(\texttt{D}[g[n,\,s,\,z]\,,\,z]\,\,-\,\texttt{D}[g[n\,-\,1,\,s,\,z]\,,\,z]\,)\,\,/\,.\,\,z\,\rightarrow\,0\,]\,,
                   (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ n^-s \}, \ \{n, 2, 40\}] \ // \ Table Form \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[MangoldtLambda[n] \ / \ Log[n] - theta[n, 2]]) \ (Full Simplify[Mangol
-2^{-s}
                                                        - 2<sup>-s</sup>
                                                 3<sup>-s</sup>
3<sup>-s</sup>
-3 2^{-1-2 s} -3 2^{-1-2 s}
5<sup>-s</sup>
                                                 5-s
0
                                                       0
7<sup>-s</sup>
                                                       7-s
 -\frac{7\times8^{-s}}{}
                                                      -\frac{7 \times 8^{-s}}{}
                                                        9<sup>-s</sup>
    2
 0
                                                        0
                                               11^{-s}
11^{-s}
0
                                                 0
13^{-s}
                                                13^{-s}
0
                                                      0
                                                    0
-15 \ 4^{-1-2 \ s} -15 \ 4^{-1-2 \ s}
17^{-s}
                                                17<sup>-s</sup>
                                                       0
19^{-s}
                                                  19^{-s}
0
                                                  0
0
                                                   0
23^{-s}
                                                  23<sup>-s</sup>
 0
                                                      0
                                                  25<sup>-s</sup>
  5<sup>-2 s</sup>
  2
                                                         2
                                                  0
3^{-1-3} s
                                                3^{-1-3} s
0
29<sup>-s</sup>
                                                  29^{-s}
0
                                                        0
31^{-s}
                                                31^{-s}
 -\frac{31}{2} 2^{-5} s
                                                        0
0
 0
                                                        0
0
                                                  0
0
                                                 0
37<sup>-s</sup>
                                                  37^{-s}
 0
                                                      0
 0
                                                      0
```

 $theta[n_{-}, k_{-}] := (1 + Floor[Floor[Log[k, n]] - Log[k, n]]) n / Log[k, n]$

```
Table[theta[n, 2], {n, 2, 40}]
\{2, 0, 2, 0, 0, 0, \frac{8}{3}, 0, 0, 0, 0, 0, 0, 0, 4, 0, 0,
     0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, \frac{32}{5}, 0, 0, 0, 0, 0, 0, 0, 0\}
Table [Floor [1/2+1/2 \cos[2 Pi \log[2, n]]], \{n, 2, 40\}]
 {1, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0}
theta[n_{,k_{-}}] := (1 + Floor[Floor[Log[k, n]] - Log[k, n]])
s[n_{,} 0] := UnitStep[n-1]
s[n_{-}, k_{-}] := Sum[FullSimplify[theta[j, 2] (j/Log[2, j])] s[n/j, k-1], \{j, 2, n\}]
\star FullSimplify[Table[{(sz[n,z]-sz[n-1,z]), If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n
                                    n/Log[2,n]!\ Pochhammer[z,Log[2,n]],0]\},\{n,2,65\}]]//TableForm*)
  (*FullSimplify[Table[{(sz[n,z]-sz[n-1,z]), If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n]=Floor[Log[2,n]], If[Log[2,n]], If[Log[2,n
                                    n bin[ z+Log[2,n]-1, Log[2,n]],0]},{n,2,65}]]//TableForm*)
\label{eq:fullSimplify} FullSimplify[Table[{(sz[n, z] - sz[n-1, z]), If[Log[2, n] = Floor[Log[2, n]], If[Log[2, n]] = Floor[Log[2, n]], If[Log[2, 
                                      (-1) \land (Log[2, n]) \ n \ bin[-z, Log[2, n]], 0], {n, 2, 65}]] // TableForm
2 z
                                                                                                                                                                                                                                                              2 z
0
                                                                                                                                                                                                                                                             0
2z(1+z)
                                                                                                                                                                                                                                                             2z(1+z)
0
0
\frac{4}{3} z (1 + z) (2 + z)
                                                                                                                                                                                                                                                             \frac{4}{3} z (1 + z) (2 + z)
0
                                                                                                                                                                                                                                                             0
0
                                                                                                                                                                                                                                                             Ω
0
0
0
0
0
                                                                                                                                                                                                                                                             0
 \frac{2}{3} z (1 + z) (2 + z) (3 + z)
                                                                                                                                                                                                                                                            \frac{2}{3} z (1 + z) (2 + z) (3 + z)
0
0
                                                                                                                                                                                                                                                              0
0
                                                                                                                                                                                                                                                              0
0
                                                                                                                                                                                                                                                              0
0
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0
                                                                                                                                                                                                                                                              0
0
                                                                                                                                                                                                                                                              0
0
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0
                                                                                                                                                                                                                                                              0
 0
                                                                                                                                                                                                                                                              0
0
                                                                                                                                                                                                                                                              0
0
                                                                                                                                                                                                                                                              0
0
0
                                                                                                                                                                                                                                                              0
 0
                                                                                                                                                                                                                                                              0
```

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

```
FI[n_] := FactorInteger[n]; FI[1] := {}
dz[n_, z_] := Product[(-1)^p[[2]] Binomial[-z, p[[2]]], {p, FI[n]}]
dz2[n_{-}, z_{-}] := If[Log[2, n] = Floor[Log[2, n]], (-1)^(Log[2, n]) nbin[-z, Log[2, n]], 0]
 Table[\{n, FullSimplify[g[n, 0, z] - g[n-1, 0, z]], dz[n, z], dz2[n, z]\}, \{n, 2, 40\}] \ // \ (a. 2. 40) \ // \ (b. 2. 40) \ // \ (b. 3. 40) \ // \ // \ (b. 3. 40) \ // \ (b
     TableForm
```

```
2
         - z
                                                                                 - z
3
         z
         \frac{1}{2} (-3+z) z
                                                                                 \frac{3}{2} (-1-z) z
4
5
         7.
                                                                                 z
6
       -z^2
7
         z
       -\frac{1}{6}(-7+z)(-2+z)z
                                                                                 -\frac{7}{6}(-2-z)(-1-z)z
8
         \frac{1}{2} z (1 + z)
                                                                                 -\frac{1}{2}(-1-z)z
9
         -z^2
                                                                                 z^2
10
11
         Z
         \frac{1}{2} (-3 + z) z^2
                                                                                 -\frac{1}{2}(-1-z)z^2
12
13
         Z
                                                                                 Z
         -z^2
                                                                                 z^2
14
        z^2
15
         \frac{1}{24} (-5+z) z (18+(-13+z) z)
                                                                                 \frac{5}{8} (-3-z) (-2-z) (-1-z) z
16
17
         Z
                                                                                 Z
      -\frac{1}{2}z^{2}(1+z)
                                                                                 -\frac{1}{2}(-1-z)z^2
18
19
                                                                                 z
         \frac{1}{2} (-3 + z) z^2
                                                                                 -\frac{1}{2}(-1-z)z^2
20
         z^2
21
         -z^2
                                                                                 z^2
22
23
                                                                                 z
                                                                                 \frac{1}{6} (-2-z) (-1-z) z^2
         -\frac{1}{6}(-7+z)(-2+z)z^2
24
         \frac{1}{2} z (1 + z)
                                                                                 -\frac{1}{2}(-1-z)z
25
26
         -z^2
                                                                                 z^2
                                                                                 \frac{1}{6} (-2-z) (-1-z) z
         \frac{1}{6} z (1 + z) (2 + z)
27
         \frac{1}{2} (-3 + z) z<sup>2</sup>
                                                                                 -\frac{1}{2}(-1-z)z^2
28
29
         -z^3
30
31
         -\frac{1}{120} \ \left(-\,4\,+\,z\,\right) \ z \ \left(-\,186\,+\,z \ \left(171\,+\, \left(-\,26\,+\,z\,\right) \ z\right)\,\right)
                                                                             -\frac{{31}}{{120}} \ \left( -4-z \right) \ \left( -3-z \right) \ \left( -2-z \right) \ \left( -1-z \right) \ z
32
33
         -z^2
                                                                                 z^2
34
         z^2
                                                                                 z^2
35
         \frac{1}{4} (-3 + z) z^2 (1 + z)
                                                                                 \frac{1}{4} (-1-z)^2 z^2
36
37
                                                                                 Z
                                                                                 z^2
-z^{2}
         z^2
39
                                                                                 z^2
         -\frac{1}{6}(-7+z)(-2+z)z^2
                                                                                 \frac{1}{6} (-2-z) (-1-z) z<sup>2</sup>
40
```

```
fk[n_{,s_{,0}}, s_{,0}] := If[n = 1, 1, 0]
fk[n_{-}, s_{-}, 1] := If[n = 1, 0, (-1)^{(n+1)} n^{-s}]
fk[n_{, s_{, k_{, l}}} := Sum[fk[j, s, 1]fk[n/j, s, k-1], {j, Divisors[n]}]
FullSimplify[fk[100, s, 4]]
3 \times 2^{1-2} s 5^{-2} s
FullSimplify[f[100, s, 4] - f[99, s, 4]]
3 \times 2^{1-2} s 5^{-2} s
FullSimplify[fz[100, s, z]]
4^{-1-s} 25^{-s} (-3+z) z^2 (1+z)
FullSimplify[g[100, s, z] - g[99, s, z]]
4^{-1-s} 25^{-s} (-3+z) z^{2} (1+z)
FullSimplify[(a^j / b^j) / j]
a<sup>j</sup> b<sup>-j</sup>
  i
a[n_, a_, b_] := b (Floor[n/b] - Floor[(n-1)/b]) - a (Floor[n/a] - Floor[(n-1)/a])
Grid[Table[{Sum[N[\alpha[n, a, b]/n], {n, 1, 100000}], N[Log[a/b]]}, {a, 1, 10}, {b, 1, 6}]]
                 \{-0.693142,
                                 \{-1.09861,
                                                                  \{-1.60942,
                                                                                  \{-1.79177,
   {0., 0.}
                                                  \{-1.38628,
                  -0.693147
                                   -1.09861
                                                   -1.38629
                                                                   -1.60944
                                                                                   -1.79176
  {0.693142,
                   {0.,0.}
                                 \{-0.40547,
                                                 \{-0.693137,
                                                                 \{-0.916276,
                                                                                  \{-1.09863,
   0.693147}
                                  -0.405465
                                                  -0.693147
                                                                  -0.916291}
                                                                                   -1.09861
                                                                                 \{-0.693162,
  {1.09861,
                  {0.40547,
                                   {0.,0.}
                                                 \{-0.287667,
                                                                 \{-0.510806,
   1.09861}
                   0.405465}
                                                  -0.287682}
                                                                  -0.510826}
                                                                                  -0.693147}
  {1.38628,
                  {0.693137,
                                  {0.287667,
                                                   {0., 0.}
                                                                 \{-0.223139,
                                                                                 \{-0.405495,
   1.38629}
                   0.693147}
                                   0.287682}
                                                                  -0.223144
                                                                                  -0.405465}
  {1.60942,
                  {0.916276,
                                  {0.510806,
                                                  {0.223139,
                                                                   {0.,0.}
                                                                                 \{-0.182357,
                   0.916291}
                                                   0.223144}
   1.60944}
                                   0.510826}
                                                                                  -0.182322
                                                                  {0.182357,
  {1.79177,
                  {1.09863,
                                  {0.693162,
                                                  {0.405495,
                                                                                   {0., 0.}
   1.79176}
                   1.09861}
                                   0.693147}
                                                   0.405465}
                                                                   0.182322}
  {1.94593,
                  {1.25279,
                                  {0.847318,
                                                  {0.559651,
                                                                  {0.336512,
                                                                                  {0.154156,
   1.94591}
                   1.25276}
                                   0.847298}
                                                   0.559616}
                                                                   0.336472}
                                                                                   0.154151}
  {2.07941,
                  {1.38626,
                                  {0.980794,
                                                  {0.693127,
                                                                  {0.469989,
                                                                                  {0.287632,
   2.07944}
                                   0.980829}
                                                   0.693147}
                                                                   0.470004}
                                                                                   0.287682}
                   1.38629}
  {2.19719,
                  {1.50405,
                                   {1.09858,
                                                  {0.810915,
                                                                  {0.587777,
                                                                                  {0.40542,
   2.19722}
                   1.50408}
                                   1.09861}
                                                   0.81093}
                                                                   0.587787}
                                                                                   0.405465}
  {2.30254,
                  {1.6094,
                                  {1.20393,
                                                  {0.916261,
                                                                  {0.693122,
                                                                                  {0.510766,
   2.30259}
                   1.60944}
                                   1.20397}
                                                   0.916291}
                                                                   0.693147}
                                                                                   0.510826}
```

 $\alpha[\texttt{n_, a_, b_}] := b \; (\texttt{Floor}[\texttt{n / b}] \; - \; \texttt{Floor}[\; (\texttt{n - 1}) \; / \; \texttt{b}]) \; - \; \texttt{a} \; (\texttt{Floor}[\texttt{n / a}] \; - \; \texttt{Floor}[\; (\texttt{n - 1}) \; / \; \texttt{a}])$ Table[$\{n, \alpha[n, 2, 1], (-1) \land (n+1)\}, \{n, 1, 50\}$] // TableForm

```
bin[z_{-}, k_{-}] := bin[z, k] = Product[z - j, {j, 0, k - 1}] / k!
FI[n_] := Fi[n] = FactorInteger[n]; FI[1] := {}
dz[n_{z}] := dz[n, z] = Product[(-1)^p[[2]] Binomial[-z, p[[2]]], {p, FI[n]}]
D1xD[n_, s_, k_, x_] :=
 \mathtt{Sum}[\,(\mathtt{j}+\mathtt{1})\,\,{}^{\wedge}-\mathtt{s}\,\mathtt{D1xD}[\mathtt{n}\,/\,\,(\mathtt{j}+\mathtt{1})\,\,,\,\mathtt{s}\,,\,\mathtt{k}\,-\mathtt{1},\,\mathtt{x}]\,\,-\,\mathtt{x}\,\,(\mathtt{j}\,\mathtt{x})\,\,{}^{\wedge}-\mathtt{s}\,\mathtt{D1xD}[\mathtt{n}\,/\,\,(\mathtt{x}\,\mathtt{j})\,\,,\,\mathtt{s}\,,\,\mathtt{k}\,-\mathtt{1},\,\mathtt{x}]\,\,,\,\,\{\mathtt{j},\,\mathtt{1},\,\mathtt{n}\}]
D1xD[n_, s_, 0, x_] := UnitStep[n-1]
DxD[n_, s_, z_, x_] :=
 {\tt Sum[bin[z,k]\,D1xD[n,s,k,x],\{k,0,If[x<2,Log[x,n],Log[2,n]]\}]}
DxDAlt[n_, s_, z_, x_] :=
 Sum[(-1)^jbin[z, j]x^(j(1-s))Dz[n/x^j, s, z, 1], {j, 0, Log[x, n]}]
DxDAlt2[n_, s_, z_, x_] := Sum[(-1)^jbin[z, j] x^(j(1-s))
    ((Dz[n/x^j, s, z, 1] - Dz[(n-1)/x^j, s, z, 1])), \{j, 0, Log[x, n]\}]
0, (-1)^j bin[z, j] x^(j(1-s)) ((Floor[n/x^j] - Floor[(n-1)/x^j])
       (Floor[n/x^j]^-sdz[Floor[n/x^j], z]))], {j, 0, Log[x, n]}]
K[n_{-}] := K[n] = FullSimplify[MangoldtLambda[n] / Log[n]]
DxDAlt4[n_, z_, x_] :=
 Sum[If[(Floor[n/x^j]-Floor[(n-1)/x^j]) = 0, 0, (-1)^jbin[z, j] x^j
     ((Floor[n/x^{j}] - Floor[(n-1)/x^{j}]) (dz[Floor[n/x^{j}], z]))], \{j, 0, Log[x, n]\}]
f[n_{,, s_{,, k_{,, l}}} := Sum[(-1)^{(j+1)}j^{-s}f[n/j, s, k-1], {j, 2, Floor[n]}]
f[n_{, s_{, 0}}] := 1
D[FullSimplify[DxD[120, 0, z, 2] - DxD[119, 0, z, 2]], z] /.z \rightarrow 0
\texttt{D[FullSimplify[g2[120, 0, z]], z] /. z} \rightarrow \texttt{0}
Table[D[Expand[DxDAlt3[n, 0, z, 1.01]], z] /. z \rightarrow 0, {n, 2, 20}] // TableForm
-4.64572
-0.12549
-0.306666
0.345764
-0.6096
0.481733
-0.14713
0.0270478
-0.461343
0.600747
-0.420617
0.606777
-0.412778
-0.378304
-0.087755
0.649108
-0.364706
0.685016
-0.391897
```

$\label{locality} \texttt{Table} \texttt{[D[Expand[DxDAlt4[n, z, 1.01]], z] /. z} \rightarrow \texttt{0, \{n, 2, 20\}] // TableForm}$

```
-4.64572
-0.12549
-0.306666
0.345764
-0.6096
0.481733
-0.14713
0.0270478
-0.461343
0.600747
-0.420617
0.606777
-0.412778
-0.378304
-0.087755
0.649108
-0.364706
0.685016
-0.391897
D[bin[z, 0], z] /.z \rightarrow 0
```

7 / (1.01) ^2

6 / (1.01) ^2 5.88178

6.86207