```
 \begin{split} & K[n_{-}] := If[n = 1, 0, FullSimplify[MangoldtLambda[n] / Log[n]]] \\ & P[n_{-}, k_{-}] := P[n, k] = Sum[K[j] P[Floor[n/j], k-1], \{j, 2, n\}]; P[n_{-}, 0] := 1 \\ & D2[n_{-}, k_{-}] := D2[n, k] = Sum[D2[Floor[n/j], k-1], \{j, 2, n\}]; D2[n_{-}, 0] := 1 \\ & bins[z_{-}, a_{-}] := Product[(z-k), \{k, 0, a-1\}] / a! \\ & DD[n_{-}, z_{-}] := Sum[bins[z, a] D2[n, a], \{a, 0, Log[2, n]\}] \\ & P[n_{-}, k_{-}, s_{-}] := P[n, k, s] = Sum[j^{-}sK[j] P[Floor[n/j], k-1, s], \{j, 2, n\}]; \\ & P[n_{-}, 0, s_{-}] := 1 \\ & DDa[n_{-}, z_{-}] := Sum[z^{k}/k! P[n, k], \{k, 0, Log[2, n]\}] \\ & DDa[n_{-}, z_{-}, s_{-}] := Sum[z^{k}/k! P[n, k, s], \{k, 0, Log[2, n]\}] \\ & DDa2[n_{-}, z_{-}] := Sum[z^{k}/k! P[n, k] / z, \{k, 0, Log[2, n]\}] \\ \end{split}
```

Expand[D[DD[100, z], z]]

$$\frac{428}{15} + \frac{16289 z}{180} + \frac{993 z^2}{16} + \frac{611 z^3}{36} + \frac{67 z^4}{48} + \frac{7 z^5}{120}$$

Roots[Expand[D[DD[10, z], z]] = 0, z]

$$z = \frac{1}{3} \left(-21 - \sqrt{345} \right) \mid \mid z = \frac{1}{3} \left(-21 + \sqrt{345} \right)$$

 $Table[\{n, Expand[Roots[Expand[D[DD[n, x], x]] = 0, x]]\}, \{n, 2, 16\}] \ // \ TableForm \}$

$$4 x = -\frac{3}{2}$$

5
$$x = -\frac{7}{3}$$

$$6 \quad x = -\frac{7}{6}$$

$$7 \quad \mathbf{x} = -\frac{3}{2}$$

8
$$x = -4 - \sqrt{\frac{19}{3}} \mid \mid x = -4 + \sqrt{\frac{19}{3}}$$

9
$$\mathbf{x} = -5 - \sqrt{\frac{43}{3}} \mid \mid \mathbf{x} = -5 + \sqrt{\frac{43}{3}}$$

10
$$\mathbf{x} = -7 - \sqrt{\frac{115}{3}} \mid \mid \mathbf{x} = -7 + \sqrt{\frac{115}{3}}$$

11
$$\mathbf{x} = -7 - \sqrt{\frac{109}{3}} \mid \mid \mathbf{x} = -7 + \sqrt{\frac{109}{3}}$$

12
$$x = -2 - \sqrt{\frac{5}{6}} \mid \mid x = -2 + \sqrt{\frac{5}{6}}$$

13
$$x = -2 - \frac{1}{\sqrt{3}} \mid \mid x = -2 + \frac{1}{\sqrt{3}}$$

14
$$\mathbf{x} = -\frac{5}{2} - \frac{\sqrt{\frac{31}{3}}}{2} \mid \mid \mathbf{x} = -\frac{5}{2} + \frac{\sqrt{\frac{31}{3}}}{2}$$

15
$$x = -3 - \frac{4}{\sqrt{3}} \mid | x = -3 + \frac{4}{\sqrt{3}}$$

$$\mathbf{x} = -\frac{11}{2} + \frac{1}{6} \left(5184 - 3\sqrt{2539353} \right)^{1/3} + \frac{\left(1728 + \sqrt{2539353} \right)^{1/3}}{2 \times 3^{2/3}} \mid \mid \mathbf{x} = -\frac{11}{2} - \frac{1}{12} \left(5184 - 3\sqrt{2539353} \right)^{1/3} - \frac{1}{2} \left(184 - 3\sqrt{2539353} \right)^{1/3} = -\frac{1}{2} \left(184 - 3\sqrt{25395353} \right)^{1/3} = -\frac{1}{2} \left(184 - 3\sqrt{25395353} \right)^{1/3} = -\frac{1}{2} \left(184 - 3\sqrt{25395353} \right)^{1/3} = -\frac{1}{2} \left(184 - 3\sqrt{2539535} \right)^{1/3} = -\frac{1}{2} \left(184 - 3\sqrt{25395$$

Expand[D[DD[10, z], z]]

$$\frac{16}{3}$$
 + 7 z + $\frac{z^2}{2}$

$$f[z_{-}] := \frac{16}{3} + 7z + \frac{z^{2}}{2}$$

$$\frac{16}{3}$$

$$f2[z_{-}] := FullSimplify \left[\left[z - \left(-7 - \sqrt{\frac{115}{3}} \right) \right] \left[z - \left(-7 + \sqrt{\frac{115}{3}} \right) \right] \right] / 2$$

FullSimplify
$$\left[\left(-7 - \sqrt{\frac{115}{3}} \right) \left(-7 + \sqrt{\frac{115}{3}} \right) / 2 \right]$$

Expand[D[DD[13, z], z]]

$$\frac{22}{3} + 8z + 2z^2$$

$$f3[z_] := \frac{22}{3} + 8z + 2z^2$$

f4[z] := FullSimplify
$$\left[2\left(z-\left(-2-\frac{1}{\sqrt{3}}\right)\right)\left(z-\left(-2+\frac{1}{\sqrt{3}}\right)\right)\right]$$

Expand[D[DD[15, z], z]]

$$\frac{22}{3}$$
 + 12 z + 2 z²

f5[z] :=
$$\frac{22}{3}$$
 + 12 z + 2 z²

f6[z] := FullSimplify
$$\left[2\left(z-\left(-3-\frac{4}{\sqrt{3}}\right)\right)\left(z-\left(-3+\frac{4}{\sqrt{3}}\right)\right)\right]$$

$$-\frac{32}{3}$$

```
f6[-3]
N[Roots[Expand[D[DD[100, x], x]] = 0, x]]
x = -0.425539 \mid | x = -9.59257 - 10.0056 i \mid |
 x = -9.59257 + 10.0056 i \mid \mid x = -2.15895 - 1.14966 i \mid \mid x = -2.15895 + 1.14966 i
f7[z_] :=
 Full Simplify[(z - (-0.425539418089958)) (z - (-9.592566044154667 - 10.00556445690649 i))
   (z - (-9.592566044154667 + 10.00556445690649 i))
   (z - (-2.1589499610860696 - 1.1496632937798965 i))
   (z - (-2.1589499610860696 + 1.1496632937798965 i)) (7 / 120)]
f7[1]
199.517 + 0. i
Expand[D[DD[100, z], z]] /. z \rightarrow 1.
199.517
(-(-0.425539418089958)) (-(-9.592566044154667-10.00556445690649i))
 (-(-9.592566044154667 + 10.00556445690649 i))
 (-(-2.1589499610860696 - 1.1496632937798965 i))
 (-(-2.1589499610860696+1.1496632937798965 i)) (7/120)
28.5333 + 0.i
Table[\{n, N[Roots[Expand[D[DD[n, x], x]] = 0, x]]\}, \{n, 2, 110\}] // TableForm
2
      False
3
      False
      x = -2.5
5
      x = -3.5
6
      x = -1.16667
      x = -1.5
8
     x = -6.51661 \mid x = -1.48339
9
     x = -8.78594 \mid x = -1.21406
10
      x = -13.1914 \mid x = -0.808608
11
      x = -13.0277 \mid x = -0.972286
12
      x = -2.91287 \mid x = -1.08713
13
      x = -2.57735 \mid \mid x = -1.42265
14
      x = -4.10728 \mid \mid x = -0.892725
15
      x = -5.3094 \mid x = -0.690599
16
      x = -0.682041 \mid x = -7.90898 + 2.0395 i \mid x = -7.90898 - 2.0395 i
      x = -0.791494 \mid \mid x = -7.85425 + 1.8378 i \mid \mid x = -7.85425 - 1.8378 i
17
      18
      19
      x = -1.07047 + 1.77636 \times 10^{-15} i \mid \mid x = -1.69249 + 0.i \mid \mid x = -31.737 - 1.11022 \times 10^{-15} i
20
      21
      x = -0.622137 - 3.55271 \times 10^{-15} i \mid \mid x = -2.99246 + 3.55271 \times 10^{-15} i \mid \mid x = -30.8854 + 0.i
22
23
      x = -0.709221 - 1.77636 \times 10^{-15} i \mid \mid x = -2.89827 + 0.i \mid \mid x = -30.8925 - 3.33067 \times 10^{-16} i
      x = -0.713384 \mid \mid x = -3.99331 + 1.36234 i \mid \mid x = -3.99331 - 1.36234 i
2.4
```

 $x = -0.695008 \mid \mid x = -4.0025 + 1.76536 i \mid \mid x = -4.0025 - 1.76536 i$

25

```
x = -0.597522 \mid \mid x = -4.05124 - 2.41786 i \mid \mid x = -4.05124 + 2.41786 i
27
                                                                   x = -0.591904 \mid \mid x = -4.35405 + 2.04644 i \mid \mid x = -4.35405 - 2.04644 i
                                                                     \mathbf{x} = -0.58734 + 0.~\dot{\mathbf{i}} \mid \mid \mathbf{x} = -3.18184 + 8.88178 \times 10^{-16}~\dot{\mathbf{i}} \mid \mid \mathbf{x} = -7.33082 - 5.55112 \times 10^{-16}~\dot{\mathbf{i}}
28
                                                                     29
                                                                     30
 31
                                                                     x = -12.4311 \mid | x = -1.13445 - 0.090378 i \mid | x = -1.13445 + 0.090378 i
32
                                                                   33
                                                                     x = -12.7505 - 9.34829 i \mid \mid x = -12.7505 + 9.34829 i \mid \mid x = -1.75333 \mid \mid x = -0.745656
                                                                     x = -12.6234 - 9.20877 i \mid \mid x = -12.6234 + 9.20877 i \mid \mid x = -2.12266 \mid \mid x = -0.630585
34
                                                                     x = -12.4889 - 9.06456 i \mid \mid x = -12.4889 + 9.06456 i \mid \mid x = -2.46574 \mid \mid x = -0.556552
35
                                                                     x = -3.47402 - 1.05319 i \mid \mid x = -3.47402 + 1.05319 i \mid \mid x = -44.4946 \mid \mid x = -0.557345
36
                                                                     x = -3.4447 - 0.962549 i \mid \mid x = -3.4447 + 0.962549 i \mid \mid x = -44.4943 \mid \mid x = -0.616312
37
                                                                     x = -3.46269 - 1.51527 i \mid \mid x = -3.46269 + 1.51527 i \mid \mid x = -44.5231 \mid \mid x = -0.551514
38
                                                                     x = -3.47306 - 1.90322 i \mid \mid x = -3.47306 + 1.90322 i \mid \mid x = -44.5519 \mid \mid x = -0.502027
39
40
                                                                     x = -2.75817 - 1.92535 i \mid \mid x = -2.75817 + 1.92535 i \mid \mid x = -61.9835 \mid \mid x = -0.500208
41
                                                                     \mathbf{x} = -2.73552 - 1.8972 \, \mathrm{i} \, \mid \mid \mathbf{x} = -2.73552 + 1.8972 \, \mathrm{i} \mid \mid \mathbf{x} = -61.9833 \, \mid \mid \mathbf{x} = -0.545619
 42
                                                                     x = -2.2597 - 5.71533 \times 10^{-17} i \mid \mid x = -0.659723 - 5.71533 \times 10^{-17} i \mid \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 10^{-17} i \mid x = -60.6714 - 5.99237 \times 1
 43
                                                                     x = -1.82871 + 0.i \mid \mid x = -0.659234 + 0.i \mid \mid x = -59.9985 + 0.i \mid \mid x = -5.51354 + 0.i
 44
                                                                     45
                                                                     x = -1.86433 - 8.31462 \times 10^{-16} i \mid \mid x = -0.578485 + 5.50011 \times 10^{-16} i \mid \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 - 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.83954 \times 10^{-16} i \mid x = -59.324 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9.834 + 9
   46
                                                                     \mathbf{x} = -1.78668 - 8.29534 \times 10^{-16} \, \hat{\mathbf{i}} \, || \, \mathbf{x} = -0.638092 + 7.17018 \times 10^{-16} \, \hat{\mathbf{i}} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, \hat{\mathbf{x}} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-10} \, || \, \mathbf{x} = -59.3239 + 6.05237 \times 10^{-
 47
                                                                     48
                                                                     \mathbf{x} = -6.39966 - 4.4057 \; i \; | \; | \; \mathbf{x} = -6.39966 + 4.4057 \; i \; | \; | \; \mathbf{x} = -1.9033 \; | \; | \; \mathbf{x} = -0.630726
 49
50
                                                                     x = -6.51664 - 5.14835 i \mid \mid x = -6.51664 + 5.14835 i \mid \mid x = -1.67147 \mid \mid x = -0.628589
51
                                                                     x = -6.42459 - 5.07186 i \mid \mid x = -6.42459 + 5.07186 i \mid \mid x = -1.92114 \mid \mid x = -0.563001
                                                                     x = -6.52532 - 5.71546 i \mid \mid x = -6.52532 + 5.71546 i \mid \mid x = -1.72412 \mid \mid x = -0.55858
53
                                                                     x = -6.53097 - 5.7151 i \mid \mid x = -6.53097 + 5.7151 i \mid \mid x = -1.65964 \mid \mid x = -0.611745
                                                                     x = -7.86346 - 3.66074 i \mid \mid x = -7.86346 + 3.66074 i \mid \mid x = -1.66129 \mid \mid x = -0.611796
54
55
                                                                     x = -7.77276 - 3.51817 \ \dot{i} \ | \ | \ x = -7.77276 + 3.51817 \ \dot{i} \ | \ | \ x = -1.90227 \ | \ | \ x = -0.552216
                                                                     56
                                                                     \mathbf{x} = -2.22686 - 6.58137 \times 10^{-16} \ \mathrm{i} \ | \ | \ \mathbf{x} = -0.505997 + 6.32169 \times 10^{-16} \ \mathrm{i} \ | \ | \ \mathbf{x} = -12.5085 - 1.43757 \times 10^{-16} \times 10^{
57
                                                                     x = -2.50106 + 1.41729 \times 10^{-16} \, \text{i} \, || \, x = -0.505559 - 3.03362 \times 10^{-16} \, \text{i} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, \text{i} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.08164 \times 10^{-16} \, || \, x = -12.6156 + 8.0816 \times 10^{-16} \, || \, x = -12.6156 +
59
                                                                   x = -2.16114 - 1.39556 i \mid \mid x = -2.16114 + 1.39556 i \mid \mid x = -23.8343 \mid \mid x = -0.510129
 60
61
                                                                     x = -2.14245 - 1.37056 i \mid \mid x = -2.14245 + 1.37056 i \mid \mid x = -23.8339 \mid \mid x = -0.54788
62
                                                                     x = -2.15302 - 1.52188 i \mid \mid x = -2.15302 + 1.52188 i \mid \mid x = -23.8512 \mid \mid x = -0.509437
                                                                     x = -2.30762 - 1.33214 i \mid \mid x = -2.30762 + 1.33214 i \mid \mid x = -23.5462 \mid \mid x = -0.505271
63
                                                                     x = -0.504138 \mid \mid x = -18.6969 - 19.151 i \mid \mid x = -18.6969 + 19.151 i \mid \mid x = -2.30101 - 1.33325
64
65
                                                                     \mathbf{x} = -0.472457 \mid \mid \mathbf{x} = -18.7068 - 19.1494 \,\, \dot{\mathbf{i}} \mid \mid \mathbf{x} = -18.7068 + 19.1494 \,\, \dot{\mathbf{i}} \mid \mid \mathbf{x} = -2.307 - 1.4903 \,\, \dot{\mathbf{i}}
66
                                                                     x = -0.495454 \mid \mid x = -18.3726 - 18.9112 i \mid \mid x = -18.3726 + 18.9112 i \mid \mid x = -2.62963 - 0.7071 i \mid x = -2.62963 - 0.7
67
                                                                     x = -0.531673 \mid \mid x = -18.3725 - 18.9114 i \mid \mid x = -18.3725 + 18.9114 i \mid \mid x = -2.61163 - 0.6433 \mid \mid x = -2.61163 - 0.61163 \mid \mid x = -2.61163 - 0.61163 \mid \mid x = -2.61163 - 0
68
                                                                     \mathbf{x} = -3.37209 \mid \mid \mathbf{x} = -2.19619 \mid \mid \mathbf{x} = -0.527566 \mid \mid \mathbf{x} = -18.2021 - 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.7908 \, \mathbf{i} \mid \mid \mathbf{x} = -18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.2021 + 18.20
 69
                                                                     x = -0.491535 \mid \mid x = -18.2128 - 18.7885 i \mid \mid x = -18.2128 + 18.7885 i \mid \mid x = -2.79144 - 0.3910
                                                                     x = -4.60733 \mid \mid x = -1.68842 \mid \mid x = -0.518903 \mid \mid x = -17.8427 - 18.5493 i \mid \mid x = -17.8427 + 18.5493 i \mid x = -17.8427 + 18.5493 i \mid x = -17.8427 + 18.5493 i \mid \mid x = -17.8427 + 18.5477 i \mid \mid x = -17.8427 i \mid x = -17.8427 i \mid \mid x = -17.8427 i \mid \mid x = -17.8427 i \mid \mid x = -17.
70
                                                                   x = -4.6265 \mid \mid x = -1.62861 \mid \mid x = -0.55977 \mid \mid x = -17.8426 - 18.5495 i \mid \mid x = -17.8426 + 18.5495 i \mid \mid x = -17.8426 + 18.5495 i \mid \mid x = -18.62861 \mid x = -18.62861 \mid x = -18.62861 \mid \mid x =
71
                                                                     72
73
                                                                     x = -79.7862 \mid \mid x = -1.56927 \mid \mid x = -0.606045 \mid \mid x = -5.26926 - 3.26151 i \mid \mid x = -5.26926 + 3.26151 i \mid x = -5.26926 i 
74
                                                                   x = -79.7856 \mid \mid x = -1.77373 \mid \mid x = -0.555524 \mid \mid x = -5.19257 - 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17855 \, i \mid \mid x = -5.19257 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 + 3.17857 
75
                                                                     x = -79.8186 \mid \mid x = -1.6266 \mid \mid x = -0.5518 \mid \mid x = -5.25152 - 3.61886 i \mid \mid x = -5.25152 + 3.61886 i \mid x = -5.25152 + 3.61886 i \mid \mid x = -5.25152 + 3.61886 i 
 76
                                                                   x = -79.8514 \mid \mid x = -1.51343 \mid \mid x = -0.547911 \mid \mid x = -5.29361 - 3.99825 i \mid \mid x = -5.29361 + 3.29825 i \mid x = -5.29825 i \mid x = -5.29825 i \mid x = -5.29825
77
                                                                   x = -79.8509 \mid \mid x = -1.67034 \mid \mid x = -0.508542 \mid \mid x = -5.23511 - 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.23511 + 3.94397 \, i \mid \mid x = -5.2
                                                                   x = -79.9171 \mid \mid x = -1.34684 \mid \mid x = -0.53963 \mid \mid x = -5.34824 - 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34824 + 4.64389 \, i \mid \mid x = -5.34
78
                                                                   x = -79.9171 \mid \mid x = -1.29357 \mid \mid x = -0.584458 \mid \mid x = -5.35245 - 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.35245 + 4.64392 \, i \mid \mid x = -5.3
```

$Table[\{n, Expand[D[DD[n, z], z]]\}, \{n, 2, 110\}] \ // \ TableForm$

```
1
3
                     2
                     \frac{5}{2} + z
4
5
                         + Z
                      \frac{7}{1} + 3 z
6
                     \frac{9}{-} + 3 z
7
                      \frac{29}{2} + 4z + \frac{z^2}{2}
8
                     \frac{16}{3} + 5z + \frac{z^2}{2}
9
                      \frac{16}{2} + 7 z + \frac{z^2}{2}
10
                     \frac{19}{3} + 7 z + \frac{z^2}{2}
11
                      \frac{19}{2} + 8 z + 2 z<sup>2</sup>
12
                      \frac{22}{} + 8 z + 2 z<sup>2</sup>
13
                      \frac{22}{2} + 10 z + 2 z<sup>2</sup>
14
                      \frac{22}{2} + 12 z + 2 z<sup>2</sup>
15
                     \frac{91}{12} \, + \frac{155 \, z}{12} \, + \frac{11 \, z^2}{4} \, + \frac{z^3}{6}
16
                     \frac{103}{12} + \frac{155 z}{12} + \frac{11 z^2}{4} + \frac{z^3}{6}
17
```