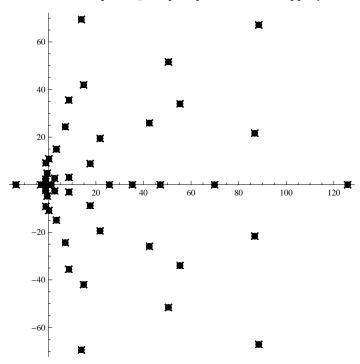
```
E2a[n_, k_, a_] :=
E2a[n, k, a] = Sum[E2a[n/j, k-1, a], {j, 2, n}] - aSum[E2a[n/(aj), k-1, a], {j, 1, n/a}];
E2a[n_{,0,a_{,1}}:=1
E1b[n_{k_{-}}, k_{-}, b_{-}] := Sum[Binomial[k, j] E2a[n, k-j, b], {j, 0, k}]
Elb[n_{x}, x_{y}, b_{y}] := Expand[Sum[bins[x, a], E2a[n, a, b], {a, 0, Log[If[b < 2, b, 2], n]}]]
E1b[100, z, 3/2]
   8\,149\,753\,z 44\,308\,889\,z^2 3\,885\,851\,z^3 47\,910\,697\,z^4 32\,326\,801\,z^5
    159\,089\,057\,z^6 \quad 110\,725\,357\,z^7 \quad 490\,059\,z^8 \quad 21\,519\,z^9 \quad 2673\,z^{10} \qquad 2187\,z^{11}
                  275 251 200 9 175 040 9 175 040 91 750 400 1 009 254 400
  117 964 800
Elc[100, z, 3/2]
823 345 z 856 706 161 z^2 343 389 241 z^3 70 576 831 z^4 706 832 933 z^5
 946176 567705600
                             324 403 200 1135 411 200 9 083 289 600
 290\,809\,943\,z^6 17\,086\,851\,z^7 1\,266\,651\,z^8
                                                7533 z^9
                                                                 2187 z^{10}
 3027763200 504627200 504627200 1009254400 1009254400
bins[z_{-}, a_{-}] := Product[(z-k), \{k, 0, a-1\}] / a!
D2a[n_{k}] := D2a[n, k] = Sum[D2a[Floor[n/j], k-1], {j, 2, n}]; D2a[n_{j}, 0] := 1
D1a[n_{,k_{]}} := Sum[bins[k, j] D2a[n, k-j], {j, 0, k}]
D1a[n_, z_] := Expand[Sum[bins[z, a] D2a[n, a], {a, 0, Log[2, n]}]]
Dlc[n_{z}] := Expand[FullSimplify[(Dla[n, z+1]-1)/(z+1)]]
D1a[100, x]
   \frac{428 \text{ x}}{15} + \frac{16289 \text{ x}^2}{360} + \frac{331 \text{ x}^3}{16} + \frac{611 \text{ x}^4}{144} + \frac{67 \text{ x}^5}{240} + \frac{7 \text{ x}^6}{720}
D1c[100, x]
99 + \frac{6031\,\mathrm{x}}{60} + \frac{3167\,\mathrm{x}^2}{90} + \frac{3929\,\mathrm{x}^3}{720} + \frac{59\,\mathrm{x}^4}{180} + \frac{7\,\mathrm{x}^5}{720}
                      720 180 720
```

 $\label{eq:rootLocusPlot[1/Expand[Elc[100, x, 11/10]], {k, 0, 1}, FeedbackType} \rightarrow \texttt{None]}$ 



 $\label{eq:rootLocusPlot[1/Expand[Elb[100, x, 11/10]], {k, 0, 1}, FeedbackType} \rightarrow \texttt{None]}$ 

