```
D2a[n_, k_] := D2a[n, k] = Sum[D2a[Floor[n / j], k - 1], {j, 2, n}]; D2a[n_, 0] := 1
E2a[n_, k_, a_] :=
 E2a[n, k, a] = Sum[ E2a[n / j, k - 1, a], {j, 2, n}] - Sum[ E2a[n / (a j), k - 1, a], {j, 1, n / a}];
E2a[n_, 0, a_] := 1
Lina[n_, a_] := Sum[ (-1) ^ (k + 1) / k E2a[n, k, a], {k, 1, Log[If[a < 2, a, 2], n]}]
Lin[n_] := Sum[ (-1) ^ (k + 1) / k D2a[n, k], {k, 1, Log[2, n]}]
```
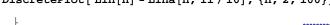
Lin[100] - Lina[100, 11 / 10]

$$\frac{282\,000\,222\,059\,796\,592\,919}{63\,245\,806\,209\,101\,973\,600}$$
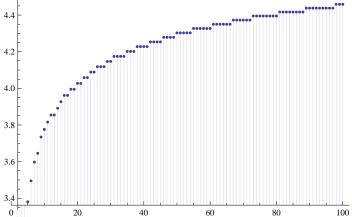
Lina[100, 2]

$$\frac{313}{12}$$

DiscretePlot[Lin[n] - Lina[n, 11 / 10], {n, 2, 100}]

`DiscretePlot[ Lin[100] - Lina[100, n], {n, 1.2, 6, .03}]`