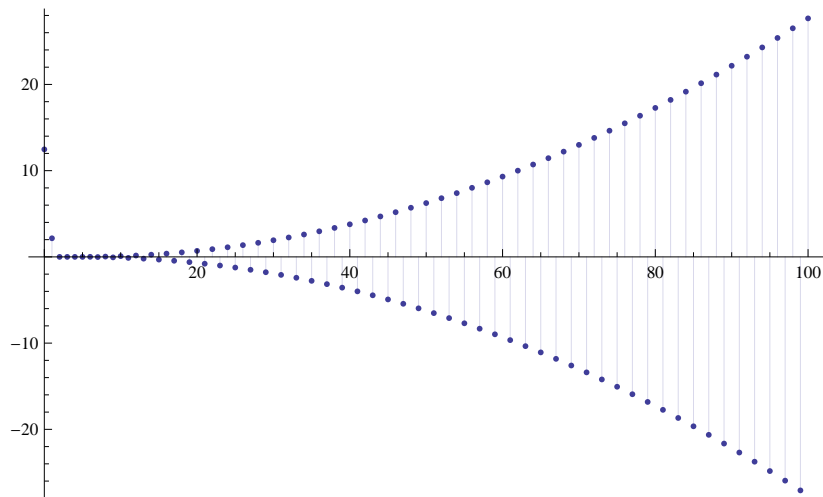


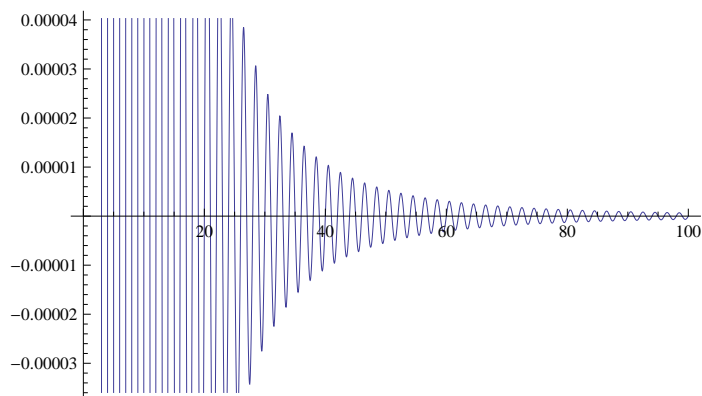
```

PS[n_] := PS[n] = FullSimplify[MangoldtLambda[n] / Log[n]]
DD[n_, k_, a_] := DD[n, k, a] = Sum[PS[j] (a^k / k! + DD[n / j, k + 1, a]), {j, 2, n}]
Dd[n_, a_] := Dd[n, a] = DD[n, 1, a] - DD[n - 1, 1, a]
Dd[1, a_] := 1
D2[n_, k_] := Sum[D2[n / j, k - 1], {j, 2, n}]
D2[n_, 0] := 1
Dd2[n_, k_] := D2[n, k] - D2[n - 1, k]
Ds[n_, k_] := Sum[(-1)^j Binomial[k, k - j] Dd[n, k - j], {j, 0, 50000}]
Ds[8, 2]
2
DA[n_, k_, j_] := (-1)^j Binomial[k, k - j] Dd[n, k - j]
DB[n_, k_, j_] := Binomial[k, k - j] Dd[n, k - j]
DR[n_, k_] := Sum[Binomial[k, k - j] Dd[n, k - j], {j, 0, 3000}]
DiscretePlot[DB[72, 2.02, j], {j, 0, 100, 1}]

```



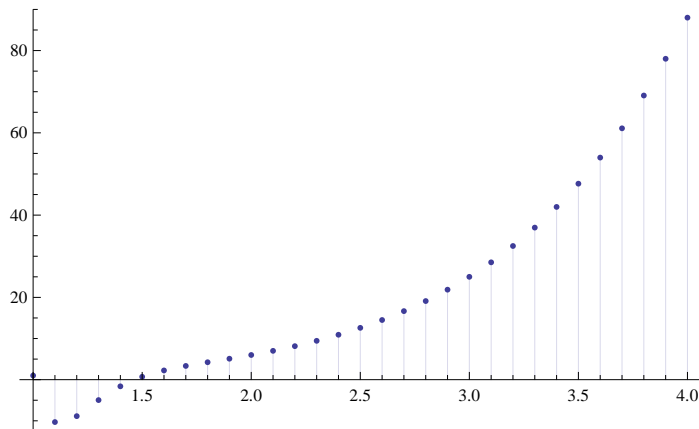
```
Plot[Binomial[2, 2 - x], {x, 0, 100}]
```



```
Binomial[4, 4 - 100.1]
```

2.59971×10^{-10}

```
DiscretePlot[DR[8, j], {j, 1, 4, .1}]
```



```
Dd[2, .000000001] / .000000001
```

```
0.9999999999999999~
```

```
Sum[Dd[j, 0], {j, Divisors[24]}]
```

```
1
```

```
Dd[24, 1]
```

```
1
```

```
Dd[4, 0]
```

```
Sum[MoebiusMu[7 / j] Dd[j, 1.000000001], {j, Divisors[7]}] / .000000001
```

```
1.
```

```
Dd[7, .000000001] / .000000001
```

```
0.9999999999999998~
```

```
FF[n_] := Sum[MoebiusMu[n / j] Dd[j, 1.000000001], {j, Divisors[n]}] / .000000001
```

```
1.
```

```
FF[10]
```

```
FE[n_] := N[Sum[MoebiusMu[j] Dd[n / j, 1 + 10^-240], {j, Divisors[n]}] / 10^-240]
```

```
FE[101]
```

```
1.
```

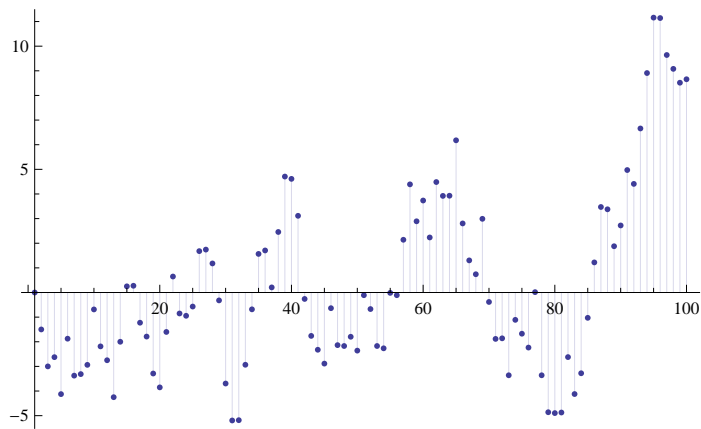
```
FD[n_] := N[Sum[MoebiusMu[j], {j, Divisors[n]}] / 10^-240]
```

```
FD[8]
```

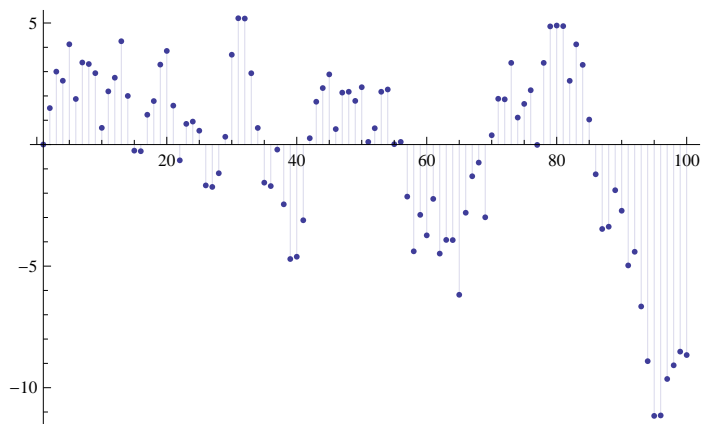
```
0.
```


[illegible]

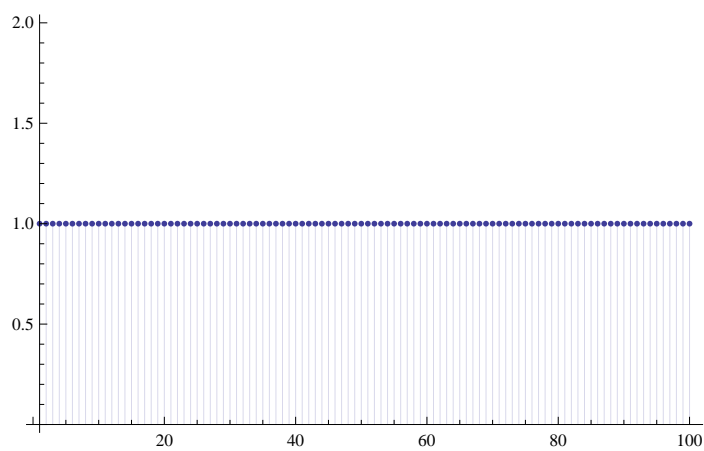
```
DiscretePlot[ DD[n, 1, -1.5], {n, 1, 100}]
```



```
DiscretePlot[ DM[n, 1.5], {n, 1, 100}]
```



```
DiscretePlot[ 1 + DD[n, 1, 1.5] + DM[n, -1.5], {n, 1, 100}]
```



```
FR[n_] := Sum[ (DM[n / j, 1.000001]), {j, 1, n}] / .000001
```

```
N[FR[100]]
```

9.9×10^7