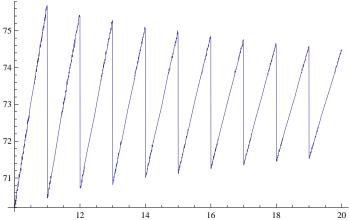
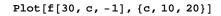
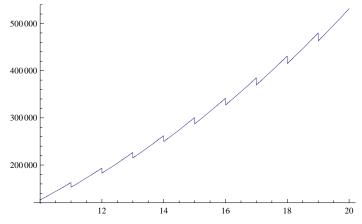
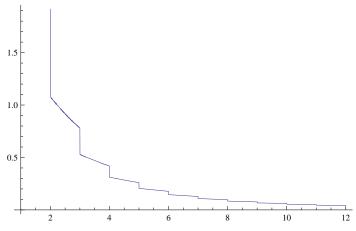
```
f[n_, c_, s_] := c^-2Sum[j^-sk^-s, {j, 2, c^2n}, {k, 2, c^2n / j}] -
  2c^{-2} Sum[j^{-s}k^{-s}, {j, 2, c}, {k, 2, c^{2}n / j}] +
  c^-2 Sum[j^-sk^-s, {j, 2, c}, {k, 2, c}]
f[6, 1, aa = -1] - f[5, 1, aa]
12
d2[n_{-}, k_{-}, s_{-}] := Sum[j^{-}sd2[n/j, k-1, s], \{j, 2, n\}]; d2[n_{-}, 0, s_{-}] := 1
N[d2[30, 2, -1]]
1020.
N[f[30, 20, -1]]
513682.
N[Gamma[2, 0, -Log[100]] / Gamma[2]]
361.517 - 4.41506 \times 10^{-14} i
N[Gamma[2, 0, -(1-(-1)) Log[30]] / Gamma[2]]
N[Gamma[2, 0, -Log[30]] / Gamma[2]]
N[Gamma[2, 0, -(1-ZetaZero[1]) Log[30]] / Gamma[2]]
5223.16 - 6.3953 \times 10^{-13} i
73.0359 - 8.82186 \times 10^{-15} i
213.126 + 156.055 i
Plot[f[30, c, 0], {c, 10, 20}]
```



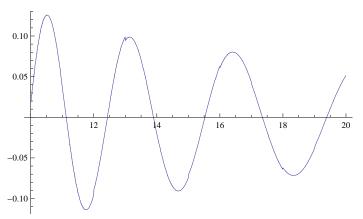




Plot[f[30, c, 1], {c, 1, 12}]



Plot[Re[f[30, c, N[ZetaZero[1]]]], {c, 10, 20}]



N[dc[30, 2, 20, -1]]

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d2[30, 2, -1]

1020

```
 \frac{48\,925\,223}{196}   \frac{48\,925\,223}{196}   N[Gamma[2, 0, -(1-(-1)) \, Log[30]] \, / \, Gamma[2]]   5223.16 - 6.3953 \times 10^{-13} \, i   dc[n_{,} k_{,} c_{,} s_{,}] := Sum[(j)^{-sc^{-1}} dc[cn/j, k-1, c, s], \{j, 1+c, nc^{k}\}];   dc[n_{,} 0, c_{,} s_{,}] := 1   N[dc[30, 2, 1, -1]]   1020.   Sum[j, \{j, 2, 30\}]   464
```