

```

RiemannExplicitFormula[x_, t_] :=
  LogIntegral[x] - 2 Re[ Sum[ ExpIntegralEi[ZetaZero[k] Log[x]], {k, 1, t}]] +
  Integrate[ 1 / ((y^3 - y) Log[y]), {y, x, Infinity}] - Log[2]
N[RiemannExplicitFormula[1000, 200]]
176.562

NumPrimes[n_, t_] :=
  Sum[ MoebiusMu[k] / k RiemannExplicitFormula[Floor[n^(1/k)], t], {k, 1, N[Log[n] / Log[2]]}]
N[NumPrimes[100, 100]]
25.0227

N[428 / 15]
28.5333

N[RiemannExplicitFormula[100, 1000]]
28.526

DiscretePlot[RiemannExplicitFormula[x, 100], {x, 2, 100}]
$Aborted

```