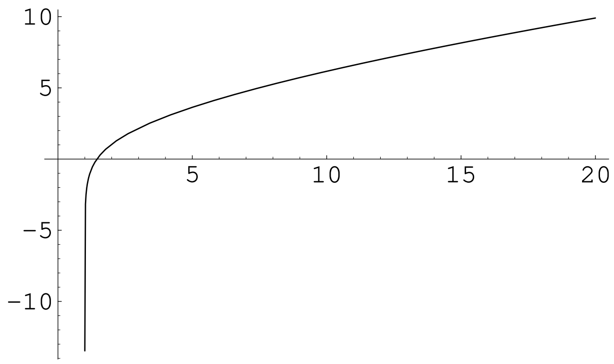
nombres premiers

This specifies that the zeta function needs to be zero to 10-digit accuracy at the solution.The Riemann hypothesis asserts that the imaginary part oftshould be exactly zero.

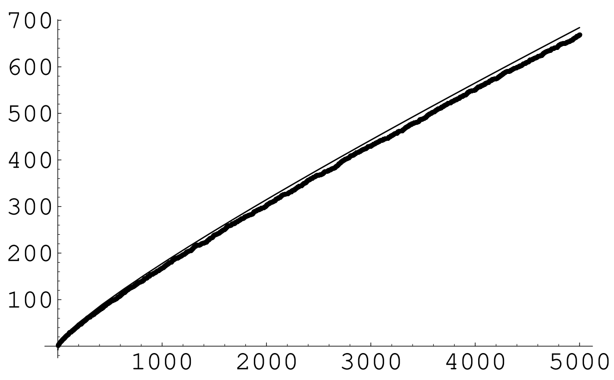
```
FindRoot@Zeta@1 2 + I tD   0, 8t, 812, 13<<, AccuracyGoal fi 10D

tracé des nombres premiers ...
```

```
Li@x_D= NIntegrate@  Log@D,8x, 1.001, x<D

Plot@LogIntegral@D 8x, 1, 20<D
```



Graphics

```
nmax = 5000;
somme = 0;
sn = Table@8 somme = somme +  If@PrimeQ@D,1, 0D<,8n, 2, nmax<D;

Show@ListPlot@snDisplayFunction fi  IdentityD,
  Plot@LogIntegral@D,8x, 1, nmax<,DisplayFunction fi  IdentityD,DisplayFunction fi  $DisplayFunctionD
```



Graphics