ON PRIME NUMBERS⑫

October 24, 2019

Yuji Masuda

(y_masuda0208@yahoo.co.jp)

① $$\lim_{n\to\infty}\frac{\ln(n)}{\ln\left(B_{(n)}\right)}=1\left(A_{(n)}=\frac{\sqrt{Composite[n]}+1}{2},\ B_{(n)}=\frac{7\cdot A_{(n)}^{\ 2}-13\cdot A_{(n)}+8}{2}\right)$$

② $$\lim_{n\to\infty}\frac{\Pr ime[Composite[n]-n]}{Composite[n]}=1$$

$(\because \Pr ime[a]=ath \Pr imenumber, Composite[b]=bthCompositenumber)$

$$\lim_{n\to\infty}\frac{\ln(D)}{\ln(Composite[n])}=1$$

$$\because D=\Pr ime\left[Composite[n]-\frac{-12\sqrt{Composite[n]}+7\cdot Composite[n]-3}{8}\right]$$