

My passion for almanacs. Today in 1003, Al-Biruni observed and recorded an eclipse of the moon at Gurgan (now in Azerbaijan). The theorem of the day is: for a prime number p denote by p_{next} the least prime greater than p . Then:

$$\liminf_{p \rightarrow \infty} \frac{p_{\text{next}} - p}{\log p} = 0.$$