

ON CRAMER'S CONJECTURE

In 1937 the Swedish mathematician Harald Cramer put forth the hypothesis that there always exists a prime number between X and $X (\ln X)^2$, I respond in this way :

That :

$$\left\{ \begin{array}{l} X \text{ and } X (\ln X)^2 \Leftrightarrow Q \\ Q \subset S_1 \wedge S_2 \\ S_2 \subset S_3 \wedge S_4 \\ S_4 \Leftrightarrow Y \\ \Psi = \frac{S_3}{\sqrt{S_4}} \end{array} \right.$$

Or that :

$$\left\{ \begin{array}{l} X \text{ and } X (\ln X)^2 \Leftrightarrow Q \\ Q \subset S_1 \wedge S_2 \\ S_1 = 0 \\ S_2 \Leftrightarrow S_3 \end{array} \right.$$

(where Q , is a series of whole naturals, S_1 is a certain number of even numbers, S_2 is a certain number of odd numbers, S_3 a certain number of odd numbers that are multiples, S_4 a certain number of odd+ non-multiple numbers, Y

Ψ , the number of prime numbers from a series of natural given whole numbers)

In this case taking into account the prime numbers distribution (see theory on the particular distribution of prime numbers) Cramer's conjecture is wrong.