

# A CONJECTURE OF TWIN PRIMES

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**Abstract:** This article puts forward a proposition concerns twin primes that every pair of numbers of the form  $\left\{ \left( \sum_{k=1}^{2n} p_k \right), \left( \sum_{k=1}^{2n} p_k \right) + 2 \right\}$  all be twin primes.

*“It is by logic that we prove. It is by intuition that we invent.”*

----- Jules Henry Poincare

We know, there are infinitely many prime numbers, and the sequence of primes begins with

2, 3, 5, 7, 11, 13, 17, 23, 29, 31, 37,...

And  $p_1=2$ ;  $p_2=3$ ;  $p_3=5$ ;...

By observing, draw the following speculation:

**A Conjecture of Twin Primes.** *Each and every pair of numbers of the form*

$$\left\{ \left( \sum_{k=1}^{2n} p_k \right), \left( \sum_{k=1}^{2n} p_k \right) + 2 \right\}$$

*All are twin primes.*