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 \( p_1 = 2; p_2 = 3; p_3 = 5; \ldots \)

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.