

A trivial but notable observation about a relation between the twin primes and the number 14

Marius Coman
Bucuresti, Romania
email: mariuscoman13@gmail.com

Abstract. There are known few interesting properties which distinguish twin primes from the general set of primes, like for instance that 46% of primes smaller than 19000 are Ramanujan primes while about 78% of the lesser of twin primes smaller than 19000 are Ramanujan primes. But seems that a much more trivial observation about the lesser of twin primes escaped attention: from the first 500 numbers which are lesser in a pair of twin primes, 66 of them have the following remarkable property: the sum of their digits is equal to 14.

Note:

For a list of lesser of twin primes and also for the property mentioned in Abstract regarding Ramanujan primes see the sequence A001359 in OEIS.

Observation:

Like I mentioned in abstract, this paper is a trivial observation of a fact: from the first 100 numbers which are lesser in a pair of twin primes, 20 of them have the property that the sum of their digits is equal to 14; from the first 500 numbers which are lesser in a pair of twin primes, 66 of them have this property; these numbers are:

: 59, 149, 239, 347, 419, 617, 1049, 1229, 1319,
1427, 1481, 1607, 2129, 2237, 2309, 2381, 3119, 3371,
3461, 3821, 4019, 4091, 4127, 4217, 4271, 4721, 5009,
5441, 6701, 7331, 8231, 9041, 10067, 10139, 10427,
11057, 12821, 13217, 13721, 13901, 14009, 14081, 16061,
18041, 18131, 18311, 19211, 20147, 20507, 21191, 21317,
22037, 22091, 22109, 22271, 22541, 23027, 24107, 25601,
29021, 30137, 31181, 31541, 31721, 32027, 32117.

Conjecture:

There is an infinity of pairs of twin primes for which the lesser term of the pair has the property that the sum of its digits it's equal to 14.

Note:

The conjecture above implies the following one:

Conjecture:

There is an infinity of primes with the property that the sum of their digits is equal to 14.