Primes obtained concatenating 30p with 30q then adding or subtracting 1, where p and q=p+6 primes

Abstract. In this paper I state the following three conjectures: let [p, q] be a pair of sexy primes (q = p + 6); then: (I) there exist an infinity of primes obtained concatenating 30*p with 30*q and adding 1 to the resulted number; example: for [p, q] = [23, 29], the number 690871 is prime; (II) there exist an infinity of primes obtained concatenating 30*p with 30*q and subtracting 1 from the resulted number; example: for [p, q] = [23, 29], the number 690869 is prime; (III) there exist an infinity of pairs of twin primes obtained concatenating 30*p with 30*q and adding/subtracting 1 from the resulted number; example: for [p, q] = [23, 29], the number 690869 is prime; (III) there exist an infinity of pairs of twin primes obtained concatenating 30*p with 30*q and adding/subtracting 1 from the resulted number; example: for [p, q] = [101, 107], the numbers 30303209 and 30303211 are primes.

The sequence of primes p such that q = p + 6 is also prime: (A023201 in OEIS)

: 5, 7, 11, 13, 17, 23, 31, 37, 41, 47, 53, 61, 67, 73, 83, 97, 101, 103, 107, 131, 151, 157, 167, 173, 191, 193, 223, 227, 233, 251, 257, 263, 271, 277, 307, 311, 331, 347, 353, 367, 373, 383, 433, 443, 457, 461, 503, 541, 557, 563, 571, 587, 593, 601, 607, 613, 641, 647 (...)

Conjecture I:

There exist an infinity of primes r obtained concatenating 30*p with 30*q and adding 1 to the resulted number, where [p, q] is a pair of sexy primes; example: for [p, q] = [23, 29], the number 690871 is prime.

The sequence of primes r:

: 210391, 510691, 690871, 11101291, 15901771, 30303211, 47104891, 57905971, 66906871, 93309511, 993010111, 1383014011, 1509015271, 1803018211, 1923019411 (...), obtained for [p, q] = [7, 13], [17, 23], [23, 29], [37, 43], [53, 59], [101, 107], [157, 163], [193, 199], [223, 229], [311, 317], [331, 337], [461, 467], [503, 509], [601, 607], [641, 647]...

Conjecture II:

There exist an infinity of primes r obtained concatenating 30*p with 30*q and subtracting 1 from the

resulted number, where [p, q] is a pair of sexy primes; example: for [p, q] = [23, 29], the number 690869 is prime.

The sequence of primes r:

: 150329, 330509, 690869, 12301409, 30303209, 32103389, 50105189, 66906869, 68106989, 69907169, 75307709, 78908069, 81308309, 1671016889, 1761017789, 1803018209, 1821018389, 1923019409 (...), obtained for [p, q] = [5, 11], [11, 17], [23, 29], [41, 47], [101, 107], [107, 113], [167, 173], [223, 229], [227, 233], [233, 239], [251, 257], [263, 269], [271, 277], [557, 563], [587, 593], [601, 607], [607, 613], [641, 647]...

Conjecture III:

There exist an infinity of pairs of twin primes obtained concatenating 30*p with 30*q and adding/subtracting 1 from the resulted number, where [p, q] is a pair of sexy primes; example: for [p, q] = [101, 107], the numbers 30303211 and 30303209 are primes.

The sequence of such pairs of twin primes:

: [690869, 690871], [30303209, 30303211], [66906869, 66906869], [1803018209, 1803018211], [1923019409, 1923019411]... obtained for [p, q] = [23, 29], [101, 107], [223, 229], [601, 607], [641, 647]...