# Two sequences of primes whose formulas contain the number 360 

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


#### Abstract

In this paper I present two possible infinite sequences of primes, having in common the fact that their formulas contain the number 360.


## Conjecture 1:

There exist an infinity of primes of the form 360*p*q + 1, where p, q are primes, both greater than or equal to 7.

The first few such primes:
: $360 * 7 * 17+1=42841$;
: $360 * 7 * 19+1=47881$;
: $360 * 11 * 13+1=51481$;
: $360 * 13 * 17+1=79561$;
: $\quad 360 * 11 * 23+1=91081$;
$: \quad 360 * 13 * 23+1=107641$.

## Conjecture 2:

There exist an infinity of primes of the form $360 * p * q+$ $r$, where $p, q, r$ are primes, all of them greater than or equal to 7.

The first few such primes for $p=q=7:$
: $360 * 7 * 7+17=17657$;
$: 360 * 7 * 7+19=17659$;
$: \quad 360 * 7 * 7+29=17669$;
$: \quad 360 * 7 * 7+41=17681 ;$
$: \quad 360 * 7 * 7+41=17683$.

The first few such primes for $p=7, q=11$ :
: $360 * 7 * 11+13=27733$;
$: \quad 360 * 7 * 11+17=27737$;
$: \quad 360 * 7 * 11+19=27739$;
$: 360 * 7 * 11+23=27743$;
: $360 * 7 * 11+29=27749$;
: $360 * 7 * 11+31=27751$.

Note the six consecutive primes obtained above!

