Re: Special primes

Source: http://sci.tech−archive.net/Archive/sci.math/2005−07/msg03880.html

- *From*: quasi <quasi@xxxxxxxx>
- *Date*: Sun, 24 Jul 2005 15:56:54 −0700

On Sun, 24 Jul 2005 15:02:34 EDT, bischar <bisch_a_r@xxxxxxxx> wrote:

>For every prime numbers m and n, with n and m consecutive and n<m, we have m^2-n^2 ending with only 0, 2 or 8.
>
>The only digit ending two consecutive 'm^2-n^2' is 0... and if you suppress the numbers 'm^2-n^2' with 0 as last digit you see a suite 'm^2-n^2' ending with 2, 8, 2, 8, 2, 8, 2, 8, never two 2 or 8 consecutively... (verified for 5<m<10000).
>
>Funny no ?
>
>Do you see a logic or a reason for that ?
>
>Can you verify it automatically for greater primes ?

A fascinating pattern.

The pattern is true for 5<n<10^6.

There may be an easy explanation but I don't see it.

quasi
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- ***Follow−Ups***:
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    - ◊ *From:* quasi
  - ♦ ***Re: Special primes***
    - ◊ *From:* David Hartley
  - ♦ ***Re: Special primes***
    - ◊ *From:* bischar
- ***References***:
  - ♦ ***Special primes***
    - ◊ *From:* bischar
  - ♦ ***Re: Special primes***
    - ◊ *From:* bischar

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