

Re: a problem in elementary number theory

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- *From:* "Yo!" <struppeck@xxxxxxxxxxxx>
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Factor it and look at the factors modulo small powers of small primes.

<dmitry.sustretov@xxxxxxxx> wrote in message
<news:1193777979.713787.161730@xx>

Hello,

I am stuck solving this problem from GRE Math training booklet:

Find the maximal integer x such that x divides $p^4 - 1$ for all prime numbers $p > 5$.

[they actually have a list to choose from: 12, 30, 48, 120, 240]

Do you have any ideas?

—

Dmitry Sustretov