

Re: prime theorems

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In article <1157375134.243240.15890@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, <arunloboforever@xxxxxxxxxx> wrote:

prove this:
if $1+a+a^2+a^3+\dots+a^{2k}$ has a prime factor greater than a . a is an odd prime.

That's almost always false. For example, the smallest case $a = 4$, $1 + 4 + \dots + 4^{(2k)}$ always has a prime factor > 4 for $k \geq 1$.

Mike Guy

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