

# Re: prime theorems

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  - *Date:* 05 Sep 2006 20:45:09 +0300
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arunloboforever@xxxxxxxxxx writes:

Well yeah. I had written it in a hurry. And that's false now. please check this: if  $a$  is an odd prime,  $1+a^2+a^4+a^6+\dots+a^{4k}$  has a prime factor greater than  $a$ .  $a$  is a prime of the form  $4j+1$ .

Don't top post, it makes you look like someone who doesn't understand that responses come after the thing to which they respond.

Anyway, your question is still malformed. You do not specify what  $k$  is. Do you mean

- If  $a$  is a prime of the form  $4j+1$  then  $1+a^2+a^4+a^6+\dots+a^{4k}$  has a prime factor greater than  $a$  for some  $k>0$ .
- If  $a$  is a prime of the form  $4j+1$  then  $1+a^2+a^4+a^6+\dots+a^{4k}$  has a prime factor greater than  $a$  for all  $k>0$ .

Phil

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"Home taping is killing big business profits. We left this side blank so you can help." — Dead Kennedys, written upon the B-side of tapes of /In God We Trust, Inc./.

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