

Re: Mod 2011

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- *From:* Phil Carmody <thefatphil_demunged@xxxxxxxxxxx>
 - *Date:* 17 Jan 2007 02:32:06 +0200
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Gerry Myerson <gerry@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> writes:

Phil Carmody <thefatphil_demunged@xxxxxxxxxxx> wrote:

<http://tech.groups.yahoo.com/group/primenumbers/message/18206?threaded=1&var=1&l=1>

It's shown in Niven, Zuckerman, and Montgomery that if p is $1 \pmod{4}$ then $((p-1)/2)!$ squared is $-1 \pmod{p}$ (p. 54), and it's an exercise to show that if p is $3 \pmod{4}$ then the quantity is plus-or-minus 1 (exercise 2.1.18).

Maybe something interesting happens with $((p-1)/3)!$ factorial, for those primes congruent $1 \pmod{3}$.

Thanks for those pointers. One presumes NZ&M is "An Introduction to the Theory of Numbers" which I've just purchased from Amazon!

Many thanks Gerry!

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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