

Re: Nearing breakthrough...need magic :-)

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-11/msg00753.html>

- *From:* "Mike Terry" <news.dead.person.stones@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 4 Nov 2005 18:05:11 -0000
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"Erik" <Erik99@xxxxxxxxxx> wrote in message
news:1131066657.345014.30590@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
> Does anyone know if there's a mathematical (as opposed to computational)
> way to find an integer value for m and e, such that for a given odd
> integer n,
>
> $mn = (2^e) - 1$
>
> OR
>
> $mn = (2^e) + 1$
>
> in other words, find a multiple of n that is equal to a power of two,
> minus (or plus) one?
>
> (i'm guessing no).

How about:

$$e = (n-1)!$$
$$m = (2^e - 1) / n$$

Regards,
Mike.

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- *Follow-Ups:*
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 - ◇ *From:* Erik
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