

Re: Another_ $p^{(2^k)}$, Karzeddin's like Conjecture

Source: <http://sci.tech-archive.net/Archive/sci.math/2006-05/msg04945.html>

- *From:* quasi <quasi@xxxxxxxx>
 - *Date:* Fri, 26 May 2006 18:01:51 -0400
-

On Fri, 26 May 2006 17:03:04 EDT, bassam king karzeddin <bassam@xxxxxxxx> wrote:

It is unclear what you mean by "prime factor exponents". If you are saying that if a prime q divides n , then it must do so to an even power, then this is false. Or do you allow $k = 0$? You would then be saying that if $q^s \mid n$ for prime q , then s is never 3,5,6,7,9,10,11,

This is almost certainly true on probabilistic grounds, and is not a new conjecture.

It's not true on any grounds.

For example, let $p=3$, $x=17$, $y=53$.

Then $(x^p+y^p)/(x+y)$ equals 13^3 .

I should like to thank you alot quasi for a very nice counter example, as this will help me alot to state it in a better version

Re: Another_ $p^{(2^k)}$, Karzeddin's like Conjecture

However Karzeddin's has previously stated some similar conjectures which appear to be correct.

For example, here is a version of one of his conjectures (edited):

If n, x, y are positive integers with $n > 2$, then the prime factorization of $x^n + y^n$ includes at least one prime factor with exponent at most 2.

I think, you are developing my previous conjecture to make (k) as finite as equal to (1 or 2), only, and this is a very important step of yours

You have no right to claim it as your own.

Indeed, I have no right to make a misleading conjectures, that was discovered by quasi

No, it's essentially your conjecture. All I did was make a very minor modification and then edit the statement slightly to improve the wording.