

Re: Ed Barbeau's "Pell's Equation"

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- *From:* "rich burge" <r3769@xxxxxxx>
 - *Date:* 23 Oct 2005 07:30:39 -0700
-

sttscitrans@xxxxxxx wrote:

> Keith Ramsay wrote:

>> john_ramsden@xxxxxxxxxxxxxxxx wrote:

>> |sttscitrans@xxxxxxx wrote:

>> |>

>> |> A reviewer mentions that there is a chapter

>> |> on "the cubic analog of Pell's equation"

>> |> in Barbeau's book. Could anyone who has

>> |> read this chapter tell me what this

>> |> analog actually is ?

>> |

>> |See <http://www.math.toronto.edu/mathnet/simmer/topic.oct99.html>

>> |

>> |(In particular there's a link to Chapter 7.pdf near the

>> |end of the page.)

>>

>> The link appears to be broken (and the postscript version too).

>

> Thanks, I suspect the analog is

> probably $x^3 + ky^3 + (k^2)z^3 - 3kxyz = 1$

> The reviewer seems to suggest that Barbeau

> gives a method of solving these higher

> degree Pell analogs and as I have recently

> found a method that seems to work, I

> was wondering what Barbeau's method was.

Does your method work for $k=1000700$? I suspect the smallest solution is quite large, but have not been able to find it.

Rich

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• *References:*

◆ *Ed Barbeau's "Pell's Equation"*

◇ *From:* sttscitrans

Re: Ed Barbeau's "Pell's Equation"

◆ **Re: Ed Barbeau's "Pell's Equation"**

◇ From: john_ramsden

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