

## Re: Can I have fries and a calculator with that?

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*Source:* <http://sci.tech--archive.net/Archive/sci.math/2005-12/msg02243.html>

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- *From:* "Kobu" <kobu.selva@xxxxxxxxxx>
  - *Date:* 9 Dec 2005 19:44:17 -0800
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Dave L. Renfro wrote:

> Dave L. Renfro wrote:

>

>>> I came across the following while searching for

>>> something else. It speaks for itself.

>>>

>>> -----

>>>

>>> <http://www.vbforums.com/showthread.php?referrerid=43870&t=298609>

>>>

>>> How do i rationalize the denominator in this?

>>>  $6/\sqrt{x} + \sqrt{3}$  I know for something like

>>>  $7/\sqrt{4}$  i can use a rationalizing factor of

>>>  $\sqrt{4}$  to end up getting  $7\sqrt{4}/4$  but then

>>> im not sure if this ends up being reduced to

>>>  $7\sqrt{1}$ . So i guess im asking two quesitons.

>>> Thanks.

>>>

>>> -----

>>>

>>> I'm almost tempted to think this was a troll post

>>> given the "two quesitons" at the end, but I think

>>> doing so requires too much textual interpretation

>>> to be realistic.

>

> Virgil wrote:

>

>> If that denominator is  $(\sqrt{x} + \sqrt{3})$ , you can

>> rationalize it by multiplying the numerator and denominator

>> by  $(\sqrt{x} - \sqrt{3})$  or by  $(-\sqrt{x} + \sqrt{3})$ .

>>

>> To rationalize a denomonator of  $\sqrt{4}$ , note that

>>  $\sqrt{4} = 2$ , which is already rational.

>

> Uh ... I think we all know this, or at least I hope we do.

> My point (see thread title) was that this person appears

> to suffer from that malady some people get from calculator

> overuse, where they aren't able to recognize  $\sqrt{4}$  and

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- > sqrt(1) as 2 and 1, and where they think sqrt(4) cancels
- > 4 in sqrt(4)/4 to produce sqrt(1).
- >
- > As for rationalizing denominators, here's a less trivial
- > example for you. We can rationalize the denominator of  $1/b$ ,
- > where
- >
- >  $b = \sqrt{2} + \sqrt{10} + \sqrt{12} + \sqrt{56}$ ,
- >
- > by multiplying the numerator and denominator by  $f(b)$ , where
- >
- >  $f(x) = x^{15} - (640)*x^{13} + (155,072)*x^{11} - (18,296,832)*x^9$
- >
- >  $+ (1,125,983,744)*x^7 - (35,305,193,472)*x^5$
- >
- >  $+ (491,646,992,384)*x^3 - (1,840,594,812,928)*x$ .
- >
- > After multiplying, but before reducing, the denominator will be
- >
- >  $- 525,242,269,696$ .
- >

I'll take your word for it, lol

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- **Follow-Ups:**

- ◆ **Re: Can I have fries and a calculator with that?**  
◇ From: Virgil

- **References:**

- ◆ **Can I have fries and a calculator with that?**  
◇ From: Dave L. Renfro
- ◆ **Re: Can I have fries and a calculator with that?**  
◇ From: Virgil
- ◆ **Re: Can I have fries and a calculator with that?**  
◇ From: Dave L. Renfro

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