

Rational and irrational numbers

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I would appreciate any comment upon the correctness of the following assertion:

Consider (1) below

$xy = z$ (1) where x, y, z are real numbers such that z is an integer, both x and y are irrational.

Assertion: Both x and y must satisfy (2) and (3); $(a, b) = 1$.

$x = \sqrt{a} + \sqrt{b}$ (2) and $y = \sqrt{a} - \sqrt{b}$ (3)

where at least one of a or b must be a non-square.

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• **Follow-Ups:**

- ◆ **Re: Rational and irrational numbers**
◇ From: Arturo Magidin
 - ◆ **Re: Rational and irrational numbers**
◇ From: quasi
 - ◆ **Re: Rational and irrational numbers**
◇ From: Rouben Rostamian
 - ◆ **Re: Rational and irrational numbers**
◇ From: gowan4@xxxxxxxxxxxx
 - ◆ **Re: Rational and irrational numbers**
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 - ◆ **Re: Rational and irrational numbers**
◇ From: A N Niel
- Prev by Date: **Re: Bring Math Arguments against this FERMAT LAST THEOREM PROOF**
 - Next by Date: **Re: Rational and irrational numbers**
 - Previous by thread: **three-element lattice expression and Polya's enumeration**
 - Next by thread: **Re: Rational and irrational numbers**
 - Index(es):
 - ◆ **Date**
 - ◆ **Thread**