Hey Brewster, I'm pretty sure someone responded already... but the problem occurs between Step 5 and Step 6 (where I've added Eqn numbers below.) You are transforming Eq 5 by raising it to the 2/5 power, and that operation does not have a unique result -- you can't invert a function that's many-to-one with an unambiguous result.

Once you open your mind to complex numbers, exponentiation can be many-to-one

٧[الْمُعْهِ الْمُعَوقَةُ الْمُحْجَةُ إِنَّكَ اللَّهُ الْمُعْطَى الْمُعْمَانِ الْمُعْلَمُ الْمُعْمَانِ الْ الْمُعْمَانَةُ اللَّهُ اللَّهُ اللَّهُ الْمُعْمَانَةُ اللَّهُ اللَّهُ الْمُعْمَانَةُ الْمُعْمَانَةُ اللَّهُ الْ الْمُعَامُ اللَّهُ الْمُ

UbX'cZWcifgY']hfg'bchilfiY'h\Uh']'1'% źY]h\Yf"

-1 = 1 fallacy

Posted on March 27, 2012 by brewster

on trying to figure out i^i, I stumbled on the following fallacy that I can not peg:

1 1 = 1

$$2 \qquad (-1)(-1) = (1) (1)$$

$$3 \quad (-1)^2 = (1)^2$$

4
$$\sqrt{(-1)^2} = \sqrt{(1)^2}$$

5
$$(-1)^{(2 * 1/2)} = (1)^{(2 * 1/2)}$$

$$6 \qquad (-1)^{1} = (1)^{1}$$

7 -1 = 1 QED

hum.

