

Homework Helper: Topic: More Solving Rational Equations

Name _____

Solve each rational equation. Use the LCD Method where appropriate.

Be sure to check for zeros in the denominator. There is an answer key on the back →



1. $\frac{6}{x+3} + \frac{x}{x-3} = 1$

2. $\frac{12}{x} + x - 8 = 0$

3. $\frac{1}{3x} + \frac{6x-9}{3x} = \frac{3x-3}{4x}$

4. $\frac{2x}{2x+3} - \frac{2x}{2x-3} = 1$

6. On a hot day, the Naylor's "baby" pool" can be filled with a hose in 15 minutes. A small hole that got in the bottom of the pool last week causes the pool to empty in 60 minutes. Mr. Naylor forgot to fix the hole... so now how long will it take to fill the pool?

7. Adam and Caleb live on the same street. When Adam jogs to Caleb's house, it takes 10 minutes. When Caleb rides his bike to Adam's house, it takes 6 minutes. If they both leave their houses at the same time, how long will it take them to meet?

5. $\sqrt{x^3 - 3x^2 + 36x - 44} = 8$

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2. 2 and 6
3. $23/15$
4. $\frac{-3 \pm 3\sqrt{2}}{2}$
5. $\pm 6i, 3$
6. 20 minutes (and 5 minutes of wasted water)
7. 3.75 minutes (3 minutes and 45 seconds)

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