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tutorial for solving rational equations Advanced
Functions 5.4 Solving Rational Equations Algebra 2:
Section 7.5 - Solving Rational Equations ~~Algebra 2~~
~~Solving Rational Equations~~ Algebra 2 Solving Rational
Equations Solving Rational Equations Easier Method
Alg 2 Intro to Solving Rational Equations Solving
rational equations 1 | Polynomial and rational functions

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Solving Rational Equations Solving rational equations 2
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Academy How to Solve Rational Equations and Find
Extraneous Solutions: Step-by-Step Explanation ~~How
to Solve Rational Equations Involving 3rd Power
Variables: The LCD Method~~ Solve Rational Equations
Part 1

How to Solve Rational Equations: Step-by-Step Tutorial
How To Solve Rational Equations General Mathematics
- Solving Rational Equations (Filipino Version)
Simplifying Rational Expressions... How? (NancyPi)
Solving a Basic Rational Equation - Ex 3

Solving Rational Equations ~~Solving Rational Equations~~

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~~[fbt] (Equations Involving Rational Expressions)~~

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~~2 Lesson 84 - Solving Rational Equations [Algebra 2]~~

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~~Solve Rational Equations Solving Rational Equations~~

~~Algebra 2~~

To solve such an equation: Completely factor all denominators. Multiply both sides of the equation by the least common denominator (LCD). Solve the resulting equation. Eliminate any solutions that would

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make the LCD become zero. These solutions are called extraneous solutions. Check the remaining solutions.

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Kuta Software - Infinite Algebra 2 Name_____ Solving
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equation. Remember to check for extraneous solutions.

- 1) $\frac{1}{6}k^2 = \frac{1}{3k^2} - \frac{1}{k}$ 2) $\frac{1}{n^2} + \frac{1}{n} = \frac{1}{2n^2}$ 3) $\frac{1}{6b^2} + \frac{1}{6b} = \frac{1}{b^2}$ 4) $\frac{b}{6} + \frac{4b^2}{3} + \frac{2b^2}{2} = \frac{b}{4} + \frac{2b^2}{2}$
5) $\frac{1}{x} = \frac{6}{5x} + \frac{1}{6}$ 6) $\frac{1}{6x^2} = \frac{1}{2x} + \frac{7}{6x^2}$ 7) $\frac{1}{v} + \frac{3v}{12} + \frac{v^2}{5} = \frac{7v}{5} - \frac{5}{6}$

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rational equations by eliminating all fractions by multiplying both sides of the equation by the least comm...

Solving Rational Equations - YouTube

Kuta Software - Infinite Algebra 1 Name_____ Solving Rational Equations 2 Date_____ Period____ Solve each equation. Remember to check for extraneous solutions.

- 1) $k + 4 = \frac{4 + k}{4} - 1$ $\frac{4}{4} = \frac{k + 4}{4k} - 1$ 2) $\frac{1}{2m^2} = \frac{1}{m} - 1$
3) $n^2 - n - 6 = \frac{n^2 - 2n + 12}{n} = n - 6$ 4) $\frac{3x^2 + 24}{x + 48} = \frac{x^2 + x - 6}{2x^2} = \frac{1}{x^2}$ 5) $\frac{k^2 + 2k - 8}{3k^3} = \frac{1}{3k^2} + \frac{1}{k^2} - \frac{8}{3k^3}$...

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$2(-x + 2)(x + 1) = (-x + 2)(x - 1)$
 $2(-x^2 + x + 2) = -x^2 + 3x - 2$
 $-2x^2 + 2x + 4 = -x^2 + 3x - 2$
2. Move all terms to the same side: $0 = x^2 + x - 6$.
Factor: $0 = (x + 3)(x - 2)$ Use zero product rule to split the factors & solve: $x + 3 = 0$ creates $x = -3$. $x - 2 = 0$ creates $x = 2$. Hope this helps.

Equations with rational expressions (example 2) (video ...

Solve rational equations by clearing the fractions by multiplying both sides of the equation by the least common denominator (LCD). Example 1: Solve: $\frac{5x - 1}{3} = \frac{1}{x}$. $5x - 1 \cdot \frac{1}{3} = \frac{1}{x}$. . Solution: We first make a note that $x \neq 0$. $x \neq 0$. and then multiply both sides by

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the LCD, $3x$:

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Solve the equation, $\frac{5}{2x} - \frac{4}{3x}$ is equal to $\frac{7}{18}$. And they tell us that x can't to be equal to 0, because that would make these two expressions here undefined. Hopefully the answer here is not 0, and then this becomes-- this is kind of extra, unnecessary information.

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A rational equation is an equation containing at least one fraction whose numerator and denominator are polynomials, $\frac{P(x)}{Q(x)}$. $\frac{P(x)}{Q(x)}$. These fractions may be on one or both sides of the equation. A common way to solve these equations is to reduce the fractions to a common denominator and then solve the equality of the numerators.

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In elementary algebra, the quadratic formula is a formula that provides the solution(s) to a quadratic equation. There are other ways of solving a quadratic equation instead of using the quadratic formula, such as factoring (direct factoring, grouping, AC method), completing the square, graphing and others.

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2) $3) n^2 - n - 6 = n^2 - 2n + 12$ $n = n - 6$ $2n = 4$ 4) $3x^2 + 24x + 48 = x^2 + x - 6$ $2x^2 = 1 - x^2$ 5) $k^2 + 2k - 8 = 3k^3 = 1$ $3k^2 + 1 = k^2 - 6 \dots$

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$$2(-x + 2)(x + 1) = (-x + 2)(x - 1) \quad 2(-x^2 + x + 2) = -x^2 + 3x - 2$$
$$-2x^2 + 2x + 4 = -x^2 + 3x - 2$$

2. Move all terms to the same side: $0 = x^2 + x - 6$.

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Factor: $0 = (x + 3)(x - 2)$ Use zero product rule to split the factors & solve: $x + 3 = 0$ creates $x = -3$. $x - 2 = 0$ creates $x = 2$. Hope this helps.

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