

Download Free Solving Rational Equations  
Answer Key Chapter 12

# **Solving Rational Equations Answer Key Chapter 12**

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Solving Rational Equations Answer Key Free rational equation calculator - solve rational equations step-by-step This website uses cookies to ensure you get the best experience. By using this website, you agree to our Cookie Policy. Rational Equation Calculator - Symbolab Math Solver Solution: Step 1: Factor all denominators and determine the LCD.  $\frac{x}{x+2} + \frac{2}{x^2+5x+6} = \frac{5}{x+3}$   $\frac{x}{x+2} + \frac{2}{x(x+2)+2(x+2)(x+3)} = \frac{5}{x+3}$  ... Step 2: Identify the restrictions. In this case, they are  $x \neq -2$  and  $x \neq -3$ . Step 3: Multiply both sides of the equation by the LCD. Distribute carefully and then ... 7.5: Solving Rational Equations - Mathematics LibreTexts Key Takeaways Begin solving rational

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equations by multiplying both sides by the LCD. The resulting equivalent equation can be solved...

Multiplying both sides of a rational equation by a variable expression introduces the possibility of

extraneous... When multiplying both sides of an equation by an

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GitHub Pages 1. Recall that you can solve equations containing fractions by using the least common

denominator of all the fractions in the equation. Multiplying each side of the equation by the common denominator eliminates the

fractions. This method can also be used with rational equations.

Rational equations are equations containing rational expressions.

## 2. SOLVING RATIONAL EQUATIONS

### EXAMPLES 8 6 skills practice solving

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8 6 Solving Rational Equations  
Answer Key ... Solving Rational  
Equations Date \_\_\_\_\_ Period \_\_\_\_\_  
Solve each equation. Remember to  
check for extraneous solutions. 1)  $\frac{1}{6}k^2 = \frac{1}{3}k^2 - \frac{1}{k}$  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)  $b + \frac{6}{4b^2} + \frac{3}{2b^2} = b + \frac{4}{2b^2}$  5)  $\frac{1}{65x} = \frac{1}{6x} + \frac{1}{6x^2}$  6)  $\frac{1}{6x^2} = \frac{1}{2x} + \frac{7}{6x^2}$  7)  $\frac{1}{v} + \frac{3}{v} + \frac{12}{v^2} - \frac{5}{v} = \frac{7}{v} - \frac{56}{v^2}$  8)  $\frac{1}{m^2} - \frac{1}{m} + \frac{1}{m} = \frac{5}{m^2} -$

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m 9) 1 ... Solving Rational Equations

- Kuta The key approach in solving rational inequalities relies on finding the critical values of the rational expression which divide the number line into distinct open intervals. The critical values are simply the zeros of both the numerator and the denominator.

You must remember that the zeros of the denominator make the rational expression undefined, so they must be immediately disregarded or excluded as a possible solution. Solving Rational Inequalities - ChiliMath Solving Rational Equations - Practice Problems Move your mouse over the "Answer" to reveal the answer or click on the "Complete Solution" link to reveal all of the steps required for solving rational

equations. Solving Rational Equations - Practice Problems To solve a rational equation, start by rearranging it so you have 1 fraction on each side of the equals sign. Then, cross multiply by multiplying the first fraction's numerator by the second fraction's denominator, and vice versa. Next, set the 2 products equal to each other and simplify them. How to Solve Rational Equations: 8 Steps (with Pictures ... Multiply the numerator and denominator by 2.  $15 \text{ minus } 8$ . So this becomes  $15 \text{ minus } 8 \text{ over } 18$ , which is equal to  $7 \text{ over } 18$ . So it works out.  $5 \text{ over } 2x$  when  $x$  is equal to 3, minus  $4 \text{ over } 3x$  when  $x$  is equal to 3 is indeed equal to  $7/18$ . So we're done. Equation with two rational expressions (old example 2

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... Solving Rational Equations 2

Date \_\_\_\_\_ Period \_\_\_\_\_ Solve each

equation. Remember to check for

extraneous solutions. 1)  $k + 4 = \frac{4}{k + 4}$

2)  $\frac{1}{2}m^2 = \frac{1}{m} - 1$

3)  $n^2 - n - 6 = \frac{n^2 - 2n + 12}{n}$

4)  $3x^2 + 24x + 48 = \frac{x^2 + x - 6}{2x^2}$

5)  $k^2 + 2k - 8 = \frac{3k^3}{k^2 + 1}$

6)  $k^3 - 1 = \frac{3k}{k^2 + 1}$

7)  $x - 4 = \frac{6x + x^2 - 3x}{x^2}$  ... Solving

Rational Equations 2 -

Kuta Equations One-step equations

Two-step equations Multi-step

equations Absolute value equations

Radical equations (easy, hard)

Rational equations (easy, hard)

Solving proportions Percent

problems Distance-rate-time word

problems Mixture word problems

Work word problems Literal

Equations Free Algebra 1

Worksheets - Kuta Exponential

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Growth (no answer key on this one, sorry) Compound Interest

Worksheet #1 (no logs) Compound Interest Worksheet (logarithms required) Exponent Worksheets.

Simplify Rational Exponents; Solve Equations with Rational Exponents;

Solve Equations with variables in Exponents; Factoring Worksheets

Factor by Grouping; Functions and Relations ... Algebra 2 Worksheets

(pdf) with answer keys 1) Isolate the radical symbol on one side of the equation. 2) Square both sides of the equation to eliminate the radical symbol. 3) Solve the

equation that comes out after the squaring process. 4) Check your answers with the original equation to avoid extraneous values. Solving Radical Equations -

ChiliMath Solving equations by

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completing the square Solving equations with the quadratic formula The discriminant. General Functions Evaluating functions ...

Solving rational equations.

Exponential and Logarithmic

Functions The meaning of

logarithms Properties of logarithms

The change of base formula Free

Algebra 2 Worksheets - Kuta In this

resource, students will practice

solving rational equations. Only

prep work is to make copies!

(Recommend to copy the worksheet

double-sided, since it is 2 pages,

and then copy the grid separately.)

Once students have solved each

problem, they will locate the

solution in the grid and shade

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Worksheet: Students will solve 10 rational equations in which they must use the LCD. They will then use their answers to solve the math fun fact. My students loved this activity as it's a fun twist on a difficult concept. \*Answer key included!\* Teacher tip: Some problems

Rational Equations Activity & Worksheets | Teachers Pay ... Day 4 - 9 4 9 5 Quiz Review Worksheet Answers. Day 7 - Solving Rational Equations Notes. pg 571 and pg 572. Day 7 - Solving Rational Equations Textbook HW Answers. Day 8 - Applications and Core Assessment 2 Notes. Day 8 - 9.6 Solving Rational Equations Applications Answer Key. Day 9 - Unit Review Day 1 Answer Key. Day 10 - Unit 3 Review Day 2 ...

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