

## C3 Rational Expressions Worksheet C Answers

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### Common Core Map | Khan Academy

Enjoy these free printable sheets focusing on rational expressions, typically covered unit in Algebra 2. Each worksheet has model problems worked out step by step, practice problems, as well as challenge questions at the sheets end. Plus each one comes with an answer key.

### 1.6 Rational Expressions - College Algebra | OpenStax

C3 RATIONAL EXPRESSIONS Worksheet C 1 Express  $\frac{9x^2 - 25}{3x^2 - x}$  as a single fraction in its simplest form. (6)  $f(x) = \frac{2x^3 + 11x^2 + 12x + 9}{x^3 + x^2 + x}$ ,  $x > 0$ . Show that  $f(x) = \frac{4x + 1}{x}$ . (5) 3 a Express  $\frac{6x - 36}{2x^2 - 1}$  as a single fraction in its simplest form. (3) b Hence solve the equation  $\frac{6x - 36}{2x^2 - 1} = 2$ ,

### RATIONAL EXPRESSIONS Answers - Worksheet C

A rational expressions is a fraction with a variable in the denominator. We simplify rational expressions the same way we simplify fractions - dividing the numerator and denominator by the Plan your 60-minute lesson in Math or rational

expressions with helpful tips from Colleen Werner

## Bing: C3 Rational Expressions Worksheet C

The expressions include ones where you need to combine like terms (such as  $2t - 9 - 6t + 2$ ), use the distributive property (such as  $9 - 2(x + 7)$ ), and to multiply and divide monomials, such as  $2x^2 \cdot (-5x^3)$  and  $-4x^2 \cdot y^2 / 3x^5$ . Basic instructions for the worksheets. Each worksheet is randomly generated and thus unique.

## RATIONAL EXPRESSIONS Worksheet B - Maths Genie

Solomon Press C3 RATIONAL EXPRESSIONS Worksheet B 1 Find the quotient and remainder obtained in dividing a  $(3x^3 - 10x - 9x + 15)$  by  $(x - 4)$  b  $(2x^3 - 11x^2 - x + 3)$  by  $(2x - 1)$  c  $(4x^3 + 8x^2 + 7x + 32)$  by  $(2x + 5)$  d  $(1 - 22x - 6x^3)$  by  $(3x + 2)$  2a Show that  $(x + 2)$  is a factor of  $(x^3 + 4x^2 + x - 6)$ . b Fully factorise  $x^3 + 4x^2 + x - 6$ . c Simplify  $32 \frac{2}{46} \frac{9}{xxx}$

## Rational Functions & Expressions

The complex rational expression  $\frac{a + 1}{b + c} \cdot \frac{a + 1}{b + c}$  can be simplified by rewriting the numerator as the fraction  $\frac{a + 1}{a + 1}$  and combining the expressions in the denominator as  $\frac{1 + b}{c} \cdot \frac{1 + b}{c}$ . We can then rewrite the expression as a multiplication problem using the reciprocal of the denominator.

## Rational Expressions Date Period - Kuta

RATIONAL EXPRESSIONS & FUNCTIONS Mathematics Vision Project Licensed under the Creative Commons Attribution CC BY 4.0 mathematicsvisionproject.org MODULE 5 - TABLE OF CONTENTS RATIONAL EXPRESSIONS AND FUNCTIONS 5.1 Winner, Winner - A Develop Understanding Task Introducing rational functions and asymptotic behavior (F.IF.7d A.CED.2, F.IF.5)

## LESSON Practice C 10-3 Simplifying Rational Expressions

WarmUp: "Simplify each expression. Assume all variables are positive (this means that you do not need to use \_\_\_\_\_ in the simplified expression)." A)  $!50 x^5$  B)  $! 3 54 n 8$

## RATIONAL EXPRESSIONS Worksheet C

C3 RATIONAL EXPRESSIONS Answers - Worksheet C.  $1 = \frac{6(3)(3)xx+}{-7(21)(3)xx+}$ .  $2f(x) = \frac{323x+}{-9(23)(4)xx}$ .  
 $= \frac{6(21)7(3)(3)(3)(21)xx}{515(3)(3)(21)x}$

## Solomon Press-Worksheet Series C3 Edex

• Symbols For all rational expressions  $\frac{b}{a}$  and  $\frac{d}{c}$ ,  $\frac{b}{a} \pm \frac{d}{c} = \frac{bd \pm dc}{ac}$ , if  $b \neq 0$ ,  $c \neq 0$ , and  $d \neq 0$ . The following examples show how these rules are used with rational expressions. 474 Chapter 9 Rational Expressions and Equations Multiply Rational Expressions Simplify each expression. a.  $\frac{45}{a^2b} + \frac{11}{6a^2b}$  b.  $\frac{5}{a^2b} - \frac{3}{5a^2b}$  Factor.  $\frac{23}{2b}$

## Chapter 9: Rational Expressions and Equations

8.3 Worksheet 1 Alg II.pdf View Download ... 8.4 Simplifying Rational Expressions & Domain Alg 2.pdf View Download ...

## Rational Expression Worksheets with Answer Keys. Free pdfs ...

Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions. Add & subtract rational expressions: factored denominators.

## Chapter 8: Rational Functions - Mrs. Powers' Math Website

C3 RATIONAL EXPRESSIONS Answers - Worksheet B page 3 Solomon Press 7 a b quotient: 1, remainder:  $2x + 3$  quotient: 2, remainder:  $5x + c$  d quotient: 1, remainder:  $-3x + 8$  quotient: 3, remainder:  $-x - 10$  e f quotient:  $x - 3$ , remainder: 2 quotient:  $2x + 3$ , remainder:  $13x - 2$  g h

## RATIONAL EXPRESSIONS Answers - Worksheet B

Print Complete Sections . PRINT INDIVIDUAL WORKSHEETS. Rational Expressions

## Free worksheets for simplifying expressions (pre-algebra ...

Practice C 10-3 Simplifying Rational Expressions Find any excluded values for each rational expression. 1.  $\frac{5}{4x+7}$  2.  $\frac{4x}{x^2-4x+3}$  3.  $\frac{x}{5x^2+25}$  Simplify each rational expression, if possible. Identify any excluded values. 4.  $\frac{x}{1-x^2}$

4 5.  $4x^2 - 20x + 25$   $2x^2 - 10x + 6$   $\frac{1}{x^2 - 3x + 5}$   $\frac{2}{3x^2 - 5x + 2}$  Simplify each rational expression, if ...

## Unit 4 PacketMPLG

Rational Expression Worksheet Review #17: All operations. Simplify (remember to factor when necessary). 1. 2. 3. Multiply or divide (remember to factor when necessary). 4. 5. 6. Add or subtract these rational expressions. 7. 8. Solve each equation for x. SHOW WORK! 9. 10. Author: Lakeshore High School ...

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