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Section 4.2: Simplifying Rational Expressions. Simplifying Rational Expressions. The common factors in rational expressions can be reduced in the numerator and denominator to create equivalent rational expressions.

*Section 4 2 Rational Expressions And Functions ...*

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*and Subtracting Rational Expressions with a Common Denominator Section 4 2 Rational Expressions*

Chapter 4: Rational Expressions and Equations Section 4.2 100 Section 4.2: Simplifying Radical Expressions Simplifying a Rational Expression A rational expression is considered to be simplified when all possible common factors have been removed from the numerator and denominator. Ex. Simplify the following rational expressions (a)  $-\frac{24}{x^2}$  ...

*Section 4 2 Rational Expressions And Functions*

Section 21: Reduce Rational Expressions Evaluate 1)  $42 \div 6$  v when  $v = 4$  2)  $3 \div 39$  b b when  $b = 2$  3)  $2 \div 43$  x 3 x when  $x = 4$  4)  $2 \div 32$  a 2 a a when  $a = 1$  5)  $2 \div 44$  b 2 b b when  $b = 0$  6)  $2 \div 3$  n 6 n when  $n = 4$  State the excluded value(s) 7)  $2 \div 0$  3 30 1 k k 8)  $2 \div 27$  18 36p p 13) 9)  $2 \div 15$  10

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For the first one listed we need to avoid  $(x = 1)$ . The second rational expression is never zero in the denominator and so we don't need to worry about any restrictions. Note as well that the numerator of the second rational expression will be zero. That is okay, we just need to avoid division by zero.

### *Section 1-6 : Rational Expressions - Lamar University*

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An algebraic solution to a rational equation that would cause any of the rational expressions to be undefined is called an extraneous solution to a rational equation. ... Section 7.4 Exercises Practice Makes Perfect. Solve Rational Equations. In the following exercises, solve each rational equation. ...

### *7.4 Solve Rational Equations - Intermediate Algebra 2e ...*

Notice that the result is a polynomial expression divided by a second polynomial expression. In this section, we will explore quotients of polynomial expressions. Simplifying Rational

Expressions. The quotient of two polynomial expressions is called a rational expression. We can apply the properties of fractions to rational expressions, such as simplifying the expressions by canceling common factors from the numerator and the denominator.

### *1.6 Rational Expressions - College Algebra | OpenStax*

Section 2.4: Add and Subtract Rational Expressions. Objective: Add and subtract rational expressions with like and different denominators. You will recall that when adding fractions with a common denominator, we add the numerators and keep the denominator. This same process is used with rational expressions.

### *Section 2.4: Add and Subtract Rational Expressions*

Chapter 4: Rational Expressions and Equations Section 4.2 100 Section 4.2: Simplifying Radical Expressions Simplifying a Rational Expression A rational expression is considered to be simplified when all possible common factors have been removed from the numerator and denominator. Ex. Simplify the following rational expressions (a)  $-24 \hat{O}$ .

### *Section 4.1: Equivalent Rational Expressions*

When dividing rational expressions, we change the division problem into an equivalent multiplication problem. Multiply the first expression by the reciprocal of the divisor. In other words, keep the first expression, change the operation from division to multiplication, and "flip" the second expression.

### *Section 2.2: Multiply and Divide Rational*

### Expressions

SWBAT: To add and subtract rational expressions with the same denominators. QUIZ Example 1: Add the fractions and reduce to lowest terms. b)  $\frac{2m + 4}{m^2 - 9} + \frac{2}{m^2 - 9}$  a)  $\frac{7}{12} - \frac{1}{12}$  b)  $\frac{7x}{12} - \frac{x}{12}$  c)  $\frac{7}{12x^2}$ . Subtract and simplify your answer. c)  $\frac{5}{6} + \frac{1}{6}$  a)  $\frac{4}{9} + \frac{2}{9}$  b)  $\frac{4x}{9} + \frac{2x}{9}$ . Add and simplify your answer. Warm\_Up a)  $\frac{3b}{2} + \frac{5b}{2}$  b)  $\frac{2}{3} - \frac{1}{3}$

### Algebra

Section 12.2 Multiplication and Division of Rational Expressions Objectives: PCC Course Content and Outcome Guide MTH 95 CCOG 3.b; MTH 95 CCOG 3.c; In the last section, we learned some rational function applications. In this section, we will learn how to simplify rational expressions, and how to multiply and divide them.

#### ORCCA Multiplication and Division of Rational Expressions

The point of this section is to work with expressions like  $\frac{12}{b-2} + \frac{12}{b+2}$ ,  $\frac{12}{b-2} - \frac{12}{b+2}$ , where two rational expressions are added (or subtracted). There are times when it is useful to combine them into a single fraction.

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