

### rational expressions problems and pdf

Math 51 Worksheet Application Problems with Rational Expressions The applications will involve situations with work rate, variations, water current and speed of

### 10 Math 51 Application problems with rational expressions

Refer back to the rational expressions written across the top of the board and the fractions that were created by the students out of the factored expressions. Stress again that we can

### Rational Expressions; Expressions and Operations; All

Reducing Rational Expressions to the Lowest Term To reduce a rational expression to its lowest term, factor each polynomial and cancel like terms that are both in the numerator and the denominator.

### RATIONAL EXPRESSIONS - El Paso Community College

© 2012 K2 80v1 t2g bK Tu Yt7aa 8S6oXfft Aw0aQrYe0 ILoLiCt. A q fANISlf LrPibgzH 9tGsL ur1e 9sle fr avte ad g.R i xMfa 2d Qe3 pw2iatGhD 9I0n 2fAipn Aiyt oeC DAHITgAe2b nr9a i 71b.

### Simplifying Rational Expressions - Kuta Software LLC

The rational expression is not simplified because both the numerator and denominator have a common factor,  $b$ . To simplify this expression, factor  $b$  from each term in the numerator, then divide it out. Thus, becomes when simplified. To Simplify Rational Expressions 1. Factor both the numerator and denominator as completely as possible. 2.

### Simplifying Rational Expressions

Here is a set of practice problems to accompany the Rational Expressions section of the Preliminaries chapter of the notes for Paul Dawkins Algebra course at Lamar University.

### Algebra - Rational Expressions (Practice Problems)

We want to start by simply reducing rational expressions. This merely requires factoring and canceling any common factors. Example 1: Simplify.  $\frac{4x^2 - 35x + 15}{ax^2 + bx}$  Solution: a. To simplify this rational expression we simply need to reduce the number part and cancel any variables that we can. We get  $\frac{x^2 - 35x + 15}{4x^2 + 3x} = \frac{b}{a}$ .

### R.5 Rational Expressions and Equations

Applications of Rational Equations 7.6 7.6 OBJECTIVES 1. Solve a literal equation that involves a rational expression 2. Solve a distance problem that involves a rational equation 3. Solve a work problem 4. Convert units In the previous section, we solved rational equations. In this section we will see several

### 7.6 Applications of Rational Equations

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### Rational Expressions Date Period - Kuta Software LLC

Rational Expressions Practice Test Name \_\_\_\_\_ (Multiple Choice) 1. Find any values for which  $\frac{7x^2 - 12x + 5}{x^2 - 2}$  is undefined. (a) 0, 3, 4 (b) 0, -3, -4 (c) 0, 3, 4, -5 (d) 0, -5 2. Find the numerical value of  $\frac{2x^2 - 7x + 15}{x^2 - 2}$  when  $x = -2$ . (a) 0 (b) 9 (c) 7 (d) Undefined 3. Find the rational expression equivalent to  $\frac{5x^2 - 6x + 3}{x}$ .

### **Rational Expressions Practice Test Name (Multiple Choice)**

Solve the following word problems. (11) It takes a person the same time to drive 150 miles as it takes a plane to fly 1350 miles. If the plane is flying 400 mi/h faster than the car, how fast is each traveling? (12) It took a woman the same time to drive 150 miles as it takes a train to travel 250 miles.

### **Math 101 Review on Rational Equations & Word Problems**

Rational Expressions Worksheet Reducing Rational Expressions 1. Reduce  $\frac{29}{3x^2}$  2. Reduce  $\frac{2256}{1yy}$  3. Reduce  $\frac{2233}{33xxaxaxaxa}$  4. Reduce

### **Rational Expressions Worksheet - Mathematical Sciences**

5.8 Applications of Rational Expressions The last thing we want to do with Rational Expressions is the last thing we always want to do when we learn a new topic. That is, we want to talk about applications to the real world. In this case, we will only deal with two different types of word problems. They are problems that

### **5.8 Applications of Rational Expressions - Jon Blakely**

SOLVING RATIONAL EQUATIONS EXAMPLES 1. Recall that you can solve equations containing fractions by using the least ... This method can also be used with rational equations. Rational equations are equations containing rational expressions. 2. ... Solving Rational Equations  
©2001-2003www.beaconlearningcenter.com Rev.7/25/03 6. Example ...

### **SOLVING RATIONAL EQUATIONS EXAMPLES**

Solution To isolate  $y$  on the left-hand side of the equation, we multiply each side by  $x^2$ :  $y \times 4 \times 2 \times 3 \times 2 \dots$  For problems involving work, we will always assume that the work is done ... 6.8 Applications of Rational Expressions (6-55) 357 WARM-UPS Grapefruit 50 " x lb x lb Oranges FIGURE 6.3.

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