Lesson 12.2 Practice: Simplifying Rational Expressions

School Launch · Algebra I · Unit 12: Rational Expressions: An Introduction · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Simplify and state excluded values: $\frac{x^2-11x+30}{x^2-x-20}$. EASY

2. Simplify and state excluded values: $\frac{x^2-8x+12}{x^2-5x-6}$. EASY

3. Simplify and state excluded values: $\frac{x^2+3x+2}{x^2+6x+5}$. EASY

4. Simplify and state excluded values: $\frac{x^2+7x+6}{x^2-x-2}$. MEDIUM

5. Simplify and state excluded values: $\frac{x^2+7x+10}{x^2-x-30}$. MEDIUM

6. Simplify and state excluded values: $\frac{x^2+3x-10}{x^2+6x+5}$. MEDIUM

7. Simplify and state excluded values: $\frac{x^2+x-2}{x^2-4}$. MEDIUM

8. Simplify and state excluded values: $\frac{x^2+4x+3}{x^2+5x+4}$. HARD

9. Simplify and state excluded values: $\frac{3x^2+30x+72}{x^2+7x+12}$. HARD

10. Simplify and state excluded values: $\frac{3x^2-27x+54}{x^2-4x-12}$. HARD