Lesson 5.2 Practice: Adding and Subtracting Rational Expressions

School Launch · Algebra II · Unit 5: Rational Expressions and Functions · Worksheet A

Calculator for decimals

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. Add or subtract; simplify: $\frac{4}{x} + \frac{6}{6x}$. EASY

2. Add or subtract; simplify: $\frac{2}{x} + \frac{3}{6x}$. EASY

3. Add or subtract; simplify: $\frac{3}{x} + \frac{2}{4x}$. EASY

4. Add or subtract; simplify: $\frac{2}{x-3} - \frac{3}{x-5}$. MEDIUM

5. Add or subtract; simplify: $\frac{4}{x+7} - \frac{6}{x-6}$. MEDIUM

6. Add or subtract; simplify: $\frac{1}{x-7} - \frac{2}{x-4}$. MEDIUM

7. Add or subtract; simplify: $\frac{3}{x+4} - \frac{5}{x-4}$. MEDIUM

8. Add or subtract; simplify: $\frac{2x}{x^2-49} + \frac{6}{x+7}$. HARD

9. Add or subtract; simplify: $\frac{5x}{x^2-49} + \frac{6}{x+7}$. HARD

10. Add or subtract; simplify: $\frac{2x}{x^2-16} + \frac{3}{x+4}$. HARD