Lesson 12.4 Practice: Adding and Subtracting 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. Add or subtract; simplify: $\frac{2}{x} + \frac{4}{6x}$. EASY

2. Add or subtract; simplify: $\frac{2}{x} + \frac{3}{1x}$. EASY

3. Add or subtract; simplify: $\frac{1}{x} + \frac{1}{2x}$. EASY

4. Add or subtract; simplify: $\frac{2}{x-1} - \frac{3}{x-7}$. MEDIUM

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

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

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

8. Add or subtract; simplify: $\frac{1x}{x^2-9} + \frac{5}{x+3}$. HARD

9. Add or subtract; simplify: $\frac{3x}{x^2-1} + \frac{4}{x+1}$. HARD

10. Add or subtract; simplify: $\frac{2x}{x^2-1} + \frac{6}{x+1}$. HARD