

Name _____ Simplifying Rational Expressions 8-18-17 Hour 1 2 3 4 5 6 7

Rational Expression Simplification Simplify each of the following expressions

Question 1

$$\frac{3}{2} + \frac{1}{4x}$$

Question 2

$$\frac{x}{2} + \frac{1}{3x}$$

Question 3

$$\frac{x}{4} + \frac{1}{x+5}$$

Question 4

$$\frac{1}{2-3x} + \frac{8}{3x-2}$$

Question 5

$$\frac{1}{2x-4} + \frac{5}{2-x}$$

Question 6

$$\frac{1}{x-6} + \frac{1}{x+2}$$

Question 7

$$\frac{1}{x-3} + \frac{1}{x^2-6x+9}$$

Question 8

$$\frac{1}{x^2+6x+9} + \frac{1}{x^2-9}$$

Question 9

$$\frac{1}{2x-6} + \frac{1}{x^2-3x}$$

Challenge Problem

$$\frac{1}{x^3+6x^2-4x-24} + \frac{1}{x^2+4x-12}$$