



# Adding and Subtracting Rational Expressions

Version 2

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Direction: Add and subtract the following rational expressions. Show all your work in the space provided.

1)  $\frac{2}{3x} + \frac{7}{6x} + \frac{2}{x^2}$

2)  $\frac{6x+3}{4x+2} + \frac{2x+7}{4x+2}$

3)  $\frac{x-45}{x^2-9} + \frac{x-5}{x+3}$

4)  $\frac{x-2}{x^2-4x+4} + \frac{x-1}{x-2} - \frac{x+2}{x-2}$



# Adding and Subtracting Rational Expressions

Version 2

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Direction: Add and subtract the following rational expressions. Show all your work in the space provided.

$$1) \frac{2}{3x} + \frac{7}{6x} + \frac{2}{x^2}$$

$$\frac{11x+12}{6x^2}$$

$$2) \frac{6x+3}{4x+2} + \frac{2x+7}{4x+2}$$

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

$$3) \frac{x-45}{x^2-9} + \frac{x-5}{x+3}$$

$$\frac{x-10}{x-3}$$

$$4) \frac{x-2}{x^2-4x+4} + \frac{x-1}{x-2} - \frac{x+2}{x-2}$$

$$\frac{-2}{x-2}$$