



# Adding and Subtracting Rational Expressions

Version 1

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

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

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

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

1)  $\frac{2}{4x} - \frac{2}{8x} + \frac{4}{x^2}$

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

3)  $\frac{2x-8}{x^2-16} + \frac{x+7}{x+4}$

4)  $\frac{x}{x^2+3x+2} - \frac{3}{x+2} + \frac{3x-5}{x+1}$



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

$$1) \frac{2}{4x} - \frac{2}{8x} + \frac{4}{x^2}$$

$$\frac{x+16}{4x^2}$$

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

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

$$3) \frac{2x-8}{x^2-16} + \frac{x+7}{x+4}$$

$$\frac{x+9}{x+4}$$

$$4) \frac{x}{x^2+3x+2} - \frac{3}{x+2} + \frac{3x-5}{x+1}$$

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