



Math on the Fly!



NAME: _____ DATE: _____

Adding and Subtracting Rational Expressions

Simplify each expression below.

1. $\frac{5x - 6}{11} + \frac{7 - 3x}{11}$

2. $\frac{9x + 2}{4x} - \frac{4x + 9}{4x}$

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

4. $\frac{7}{x} - \frac{5}{6}$

5. $\frac{1}{y} + \frac{2}{5x}$

6. $\frac{4}{5x + 10} - \frac{1}{x^2 - 2x - 8}$

7. $\frac{3}{4x - 4} + \frac{2}{3x - 3}$

8. $\frac{-5}{x + 4} + \frac{6}{x^2 - 16}$

9. $\frac{1}{x^2 + x - 6} - \frac{1}{x^2 - 4x + 4}$

SOLUTIONS

1.

$$\frac{2x + 1}{11}$$

2.

$$\frac{5x - 7}{4x}$$

3.

$$\frac{4x + 3}{6}$$

4.

$$\frac{42 - 5x}{6x}$$

5.

$$\frac{5x + 2y}{5xy}$$

6.

$$\frac{4x - 21}{5(x - 4)(x + 2)}$$

7.

$$\frac{17}{12(x - 1)}$$

8.

$$\frac{-5x + 26}{(x + 4)(x - 4)}$$

9.

$$\frac{-5}{(x + 3)(x - 2)(x - 2)}$$