

Adding and Subtracting Rational Expressions

Like Denominators:

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

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

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

$$\frac{3x}{x+4} + \frac{12}{x+4}$$

$$\frac{4x}{x^2-y^2} - \frac{4y}{x^2-y^2}$$

$$\frac{6x^2}{x-2} - \frac{12x}{x-2}$$

Unlike Denominators:

$$\frac{5}{9x} - \frac{2}{3}$$

$$\frac{5}{3x} + \frac{3}{2x}$$

$$\frac{4}{2x-10} + \frac{7}{x-5}$$

$$\frac{5}{5x+15} - \frac{8}{x+3}$$

$$\frac{10x}{x-4} + \frac{4x}{2x-8}$$

$$\frac{10x}{x+3} - \frac{3x}{3x+27}$$

$$\frac{5}{(x+4)} + \frac{3x}{(x-3)}$$

$$\frac{12}{(x+4)} - \frac{3x}{(x-2)}$$

$$\frac{10}{x^2-5x+14} + \frac{2}{x-7}$$

$$\frac{8}{x^2+3x-18} - \frac{3}{x-3}$$

$$\frac{3x}{x^2 - 10x + 21} + \frac{5}{x - 3}$$

$$\frac{2x}{x^2 + 5x + 6} - \frac{1}{x + 3}$$