

Rational Expression

a fraction of **polynomials** $\frac{\text{polynomial}}{\text{polynomial}}$

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

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

$$\frac{27x^3 + 8}{x^2 - x - 20}$$

To add or subtract rational expressions with unlike denominators...

Step 1: Find the least common denominators of both rational expressions

Step 2: Create like denominators of both rational expressions

Step 3: Add or subtract rational expressions with like denominators

Add or subtract the following rational expressions

$$\frac{4}{5x^3y} + \frac{1}{2xy^2}$$

Add or subtract the following rational expressions

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

Add or subtract the following rational expressions

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

Add or subtract the following rational expressions

$$\frac{x - 15}{x^2 - 9} + \frac{x}{x + 3}$$

Add or subtract the following rational expressions

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