

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 like denominators...
add or subtract the numerators and put the result over the like denominator

Add or subtract the following rational expressions

$$\frac{x}{x+1} + \frac{7}{x+1}$$

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

Add or subtract the following rational expressions

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

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

Add or subtract the following rational expressions

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

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

Add or subtract the following rational expressions

$$\frac{x^2 + 5x}{x^2 - 9} - \frac{3x + 15}{x^2 - 9}$$