

Rational Expressions

What is a rational expression?

Example

Evaluate

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

For $x = 2$ and -1

Negatives and Rationals

Example

For what values of x is the rational expression undefined?

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

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

Simplifying Rational Expressions

Example

Simplify

$$\frac{7x}{21x^2}$$

$$\frac{(x + 2)(x - 5)}{(2x - 1)(x - 5)}$$

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