



Rational Function Inequalities - Expanded Quadratic over Binomial - Sign in an interval

1

Is this rational function positive or negative on the interval $(1, \infty)$?

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

A

Positive

B

Negative

2

Is this rational function positive or negative on the interval $(1, 3)$?

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

A

Positive

B

Negative

3

Is this rational function positive or negative on the interval $(-1, \infty)$?

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

A

Positive

B

Negative

4

Is this rational function positive or negative on the interval $(-\infty, 0)$?

$$\frac{x^2 - x}{x - 1}$$

A

Negative

B

Positive

5

Is this rational function positive or negative on the interval $(-3, \infty)$?

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

A

Positive

B

Negative

6

Is this rational function positive or negative on the interval $(4, \infty)$?

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

A

Positive

B

Negative

7

Is this rational function positive or negative on the interval $(-\infty, 0)$?

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

A

Negative

B

Positive

8

Is this rational function positive or negative on the interval $(4, \infty)$?

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

A

Negative

B

Positive