



Rational Function Inequalities - Expanded Quadratic over Binomial - Sign Change at a Point

1

$$\frac{x^2 - x - 12}{x + 3}$$

Does the sign of this rational function change at $x = 0$?

A

No

B

Yes

2

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

Does the sign of this rational function change at $x = -2$?

A

Yes

B

No

3

$$\frac{x^2 + x - 12}{x - 3}$$

Does the sign of this rational function change at $x = -4$?

A

No

B

Yes

4

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

Does the sign of this rational function change at $x = 2$?

A

No

B

Yes

5

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

Does the sign of this rational function change at $x = 1$?

A

Yes

B

No

6

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

Does the sign of this rational function change at $x = -1$?

A

Yes

B

No

7

$$\frac{x^2 + 6x + 8}{x + 4}$$

Does the sign of this rational function change at $x = -2$?

A

No

B

Yes

8

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

Does the sign of this rational function change at $x = 0$?

A

Yes

B

No