



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

1

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

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

A

No

B

Yes

2

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

$$\frac{x(x - 3)}{x}$$

A

Yes

B

No

3

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

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

A

No

B

Yes

4

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

$$\frac{(x + 4)(x - 3)}{x + 3}$$

A

No

B

Yes

5

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

$$\frac{(x + 2)(x - 2)}{x - 3}$$

A

Yes

B

No

6

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

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

A

Yes

B

No

7

Does the sign of this rational function change at $x = -3$?

$$\frac{(x + 3)(x - 3)}{x + 1}$$

A

Yes

B

No

8

Does the sign of this rational function change at $x = -3$?

$$\frac{(x + 3)(x - 1)}{x + 3}$$

A

Yes

B

No