



## Polynomial Inequalities - Expanded Quadratic - Sign Change at a Point

1

Does the sign of this polynomial change at  $x = 3$ ?

$$x^2 + x - 6$$

A

B

Yes

No

2

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

$$x^2 + 5x + 6$$

A

B

Yes

No

3

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

$$x^2 - 4$$

A

B

Yes

No

4

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

$$x^2 + x - 12$$

A

B

No

Yes

5

Does the sign of this polynomial change at  $x = 3$ ?

$$x^2 - 5x + 6$$

A

B

Yes

No

6

Does the sign of this polynomial change at  $x = 4$ ?

$$x^2 - 3x + 2$$

A

B

No

Yes

7

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

$$x^2 - 2x$$

A

B

No

Yes

8

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

$$x^2 + 6x + 8$$

A

B

No

Yes