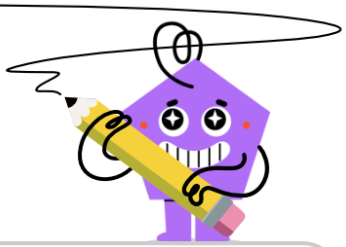
Name



Polynomial Inequalities - Factored Quadratic - Sign Chart

1 Which sign chart correctly shows the sign of this polynomial on each interval?

$$x(x-1)$$

A

Interval	Sign
(-?, 0)	-
(0, 1)	+
(1, ?)	-

B

Interval	Sign
(-?, -3)	-
(-3, 0)	+
(0, 1)	-
(1, ?)	+

C

Interval	Sign
(-?, -4)	-
(-4, 0)	+
(0, 1)	-
(1, ?)	+

D

Interval	Sign
(-?, 0)	+
(0, 1)	-
(1, ?)	+

2 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x+3)(x+1)$$

A

Interval	Sign
(-?, -3)	-
(-3, -1)	+
(-1, ?)	-

B

Interval	Sign
(-?, -4)	-
(-4, -3)	+
(-3, -1)	-
(-1, ?)	+

C

Interval	Sign
(-?, -3)	-
(-3, -2)	+
(-2, -1)	-
(-1, ?)	+

D

Interval	Sign
(-?, -3)	+
(-3, -1)	-
(-1, ?)	+

3 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x-1)(x-2)$$

A

Interval	Sign
(-?, 1)	+
(1, 2)	-
(2, ?)	+

B

Interval	Sign
(-?, -4)	-
(-4, 1)	+
(1, 2)	-
(2, ?)	+

C

Interval	Sign
(-?, 1)	-
(1, 2)	+
(2, ?)	-

D

Interval	Sign
(-?, -3)	-
(-3, 1)	+
(1, 2)	-
(2, ?)	+

4 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x-3)(x-4)$$

A

Interval	Sign
(-?, 3)	-
(3, 4)	+
(4, ?)	-

B

Interval	Sign
(-?, 3)	+
(3, 4)	-
(4, ?)	+

C

Interval	Sign
(-?, -3)	-
(-3, 3)	+
(3, 4)	-
(4, ?)	+

D

Interval	Sign
(-?, -4)	-
(-4, 3)	+
(3, 4)	-
(4, ?)	+

5 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x-1)(x-4)$$

A

Interval	Sign
(-?, -3)	-
(-3, 1)	+
(1, 4)	-
(4, ?)	+

B

Interval	Sign
(-?, 1)	-
(1, 4)	+
(4, ?)	-

C

Interval	Sign
(-?, 1)	+
(1, 4)	-
(4, ?)	+

D

Interval	Sign
(-?, -4)	-
(-4, 1)	+
(1, 4)	-
(4, ?)	+

6 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x+4)(x+2)$$

A

Interval	Sign
(-?, -4)	-
(-4, -3)	+
(-3, -2)	-
(-2, ?)	+

B

Interval	Sign
(-?, -4)	-
(-4, -2)	+
(-2, ?)	-

C

Interval	Sign
(-?, -4)	-
(-4, -2)	+
(-2, -1)	-
(-1, ?)	+

D

Interval	Sign
(-?, -4)	+
(-4, -2)	-
(-2, ?)	+

7 Which sign chart correctly shows the sign of this polynomial on each interval?

$$x(x-2)$$

A

Interval	Sign
(-?, -3)	-
(-3, 0)	+
(0, 2)	-
(2, ?)	+

B

Interval	Sign
(-?, -4)	-
(-4, 0)	+
(0, 2)	-
(2, ?)	+

C

Interval	Sign
(-?, 0)	+
(0, 2)	-
(2, ?)	+

D

Interval	Sign
(-?, 0)	-
(0, 2)	+
(2, ?)	-

8 Which sign chart correctly shows the sign of this polynomial on each interval?

$$(x+4)(x-1)$$

A

Interval	Sign
(-?, -4)	-
(-4, -2)	+
(-2, 1)	-
(1, ?)	+

B

Interval	Sign
(-?, -4)	-
(-4, 1)	+
(1, ?)	-

C

Interval	Sign
(-?, -4)	+
(-4, 1)	-
(1, ?)	+

D

Interval	Sign
(-?, -4)	-
(-4, -3)	+
(-3, 1)	-
(1, ?)	+