



Polynomial Inequalities - Three Factors - Sign Chart

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

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

Interval	Sign
(-7, -2)	+
(-2, -1)	-
(-1, 1)	+
(1, 7)	-

Interval	Sign
(-7, -4)	+
(-4, -2)	-
(-2, -1)	+
(-1, 1)	-
(1, 7)	+

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, -1)	+
(-1, 1)	-
(1, 7)	+

Interval	Sign
(-7, -2)	-
(-2, -1)	+
(-1, 1)	-
(1, 7)	+

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

$$(x + 3)x(x - 3)$$

Interval	Sign
(-7, -3)	-
(-3, 0)	+
(0, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, 0)	+
(0, 3)	-
(3, 7)	+

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, 0)	+
(0, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, 0)	-
(0, 3)	+
(3, 7)	-

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

$$(x + 3)(x + 2)(x - 4)$$

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, 4)	+
(4, 7)	-

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, -2)	+
(-2, 4)	-
(4, 7)	+

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, -1)	+
(-1, 4)	-
(4, 7)	+

Interval	Sign
(-7, -3)	-
(-3, -2)	+
(-2, 4)	-
(4, 7)	+

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

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

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, 1)	+
(1, 3)	-
(3, 7)	+

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, 1)	+
(1, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, 1)	-
(1, 3)	+
(3, 7)	-

Interval	Sign
(-7, -3)	-
(-3, 1)	+
(1, 3)	-
(3, 7)	+

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

$$(x + 3)(x - 2)(x - 3)$$

Interval	Sign
(-7, -3)	-
(-3, 2)	+
(2, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, 2)	-
(2, 3)	+
(3, 7)	-

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, 2)	+
(2, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, 2)	+
(2, 3)	-
(3, 7)	+

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

$$(x + 3)(x - 1)(x - 2)$$

Interval	Sign
(-7, -3)	+
(-3, -2)	-
(-2, 1)	+
(1, 2)	-
(2, 7)	+

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, 1)	+
(1, 2)	-
(2, 7)	+

Interval	Sign
(-7, -3)	+
(-3, 1)	-
(1, 2)	+
(2, 7)	-

Interval	Sign
(-7, -3)	-
(-3, 1)	+
(1, 2)	-
(2, 7)	+

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

$$(x + 4)(x + 2)(x - 1)$$

Interval	Sign
(-7, -4)	+
(-4, -2)	-
(-2, -1)	+
(-1, 1)	-
(1, 7)	+

Interval	Sign
(-7, -4)	+
(-4, -2)	-
(-2, 1)	+
(1, 7)	-

Interval	Sign
(-7, -4)	+
(-4, -3)	-
(-3, -2)	+
(-2, 1)	-
(1, 7)	+

Interval	Sign
(-7, -4)	-
(-4, -2)	+
(-2, 1)	-
(1, 7)	+

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

$$(x - 1)(x - 2)(x - 3)$$

Interval	Sign
(-7, 1)	+
(1, 2)	-
(2, 3)	+
(3, 7)	-

Interval	Sign
(-7, -4)	+
(-4, 1)	-
(1, 2)	+
(2, 3)	-
(3, 7)	+

Interval	Sign
(-7, -3)	+
(-3, 1)	-
(1, 2)	+
(2, 3)	-
(3, 7)	+

Interval	Sign
(-7, 1)	-
(1, 2)	+
(2, 3)	-
(3, 7)	+