



Rational Function Inequalities - Three Factors with Multiplicity over Binomial - Sign Chart

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

$$\frac{(x + 3)^2(x - 2)^3(x - 3)^5}{x - 1}$$

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

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)	+

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

$$\frac{(x + 3)^5(x + 2)^2(x - 4)^5}{x + 1}$$

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

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

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

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

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

$$\frac{(x + 3)x^2(x - 1)^4}{x - 3}$$

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

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

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

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

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

$$\frac{(x + 3)^4(x - 1)^3(x - 2)^5}{x + 4}$$

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

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

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

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

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

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

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

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

Interval	Sign
(-7, -4)	+
(-4, -2)	-
(-2, 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 rational function on each interval?

$$\frac{(x + 2)x^2(x - 1)^3}{x - 2}$$

Interval	Sign
(-7, -2)	+
(-2, 0)	-
(0, 1)	+
(1, 2)	-
(2, 7)	+

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

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

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

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

$$\frac{(x + 3)^4(x + 2)(x + 1)^2}{x + 4}$$

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

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

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

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

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

$$\frac{(x + 4)^5(x + 1)^5(x - 3)^2}{x - 4}$$

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

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

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

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