



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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