Name

Rational Function Inequalities - Three Factors over Binomial - Sign Chart

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

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

A

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

B

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

C

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

D

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

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

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

A

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

B

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

C

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

D

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

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

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

A

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

B

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

C

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

D

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

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

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

A

Interval	Sign
(-?, -2)	+
(-2, -1)	-
(-1, 0)	+
(0, 4)	-
(4, ?)	+

B

Interval	Sign
(-?, -3)	-
(-3, -2)	+
(-2, -1)	-
(-1, 0)	+
(0, 4)	-
(4, ?)	+

C

Interval	Sign
(-?, -2)	-
(-2, -1)	+
(-1, 0)	-
(0, 4)	+
(4, ?)	-

D

Interval	Sign
(-?, -4)	-
(-4, -2)	+
(-2, -1)	-
(-1, 0)	+
(0, 4)	-
(4, ?)	+

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

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

A

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

B

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

C

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

D

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

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

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

A

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

B

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

C

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

D

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

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

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

A

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

B

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

C

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

D

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

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

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

A

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

B

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

C

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

D

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