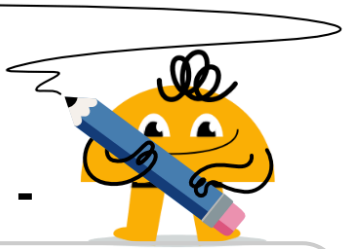
Name



Rational Function Inequalities - Two Factors with Multiplicity over Binomial - intervals

1

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-1)\cup(-1,2)\cup(2,\infty)$

B $(-\infty,-1)\cup(-1,2)\cup(2,\infty)$

C $(-\infty,-3)\cup(-3,-1)\cup(-1,2)\cup(2,\infty)$

D $(-\infty,-2)\cup(-2,-1)\cup(-1,2)\cup(2,\infty)$

2

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-2)\cup(-2,4)\cup(4,\infty)$

B $(-\infty,-2)\cup(-2,-1)\cup(-1,4)\cup(4,\infty)$

C $(-\infty,-3)\cup(-3,-2)\cup(-2,4)\cup(4,\infty)$

D $(-\infty,-2)\cup(-2,4)\cup(4,\infty)$

3

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-3)\cup(-3,2)\cup(2,\infty)$

B $(-\infty,-3)\cup(-3,2)\cup(2,\infty)$

C $(-\infty,-3)\cup(-3,-2)\cup(-2,2)\cup(2,\infty)$

D $(-\infty,-3)\cup(-3,2)\cup(2,3)\cup(3,\infty)$

4

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-2)\cup(-2,-1)\cup(-1,3)\cup(3,\infty)$

B $(-\infty,-2)\cup(-2,3)\cup(3,\infty)$

C $(-\infty,-4)\cup(-4,-2)\cup(-2,3)\cup(3,\infty)$

D $(-\infty,-3)\cup(-3,-2)\cup(-2,3)\cup(3,\infty)$

5

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-1)\cup(-1,3)\cup(3,\infty)$

B $(-\infty,-3)\cup(-3,-1)\cup(-1,3)\cup(3,\infty)$

C $(-\infty,-1)\cup(-1,3)\cup(3,\infty)$

D $(-\infty,-2)\cup(-2,-1)\cup(-1,3)\cup(3,\infty)$

6

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-3)\cup(-3,-1)\cup(-1,\infty)$

B $(-\infty,-4)\cup(-4,-1)\cup(-1,\infty)$

C $(-\infty,-4)\cup(-4,-2)\cup(-2,-1)\cup(-1,\infty)$

D $(-\infty,-4)\cup(-4,-1)\cup(-1,0)\cup(0,\infty)$

7

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,3)\cup(3,\infty)$

B $(-\infty,-4)\cup(-4,-3)\cup(-3,3)\cup(3,\infty)$

C $(-\infty,-4)\cup(-4,-2)\cup(-2,3)\cup(3,\infty)$

D $(-\infty,-4)\cup(-4,2)\cup(2,3)\cup(3,\infty)$

8

On which set of open intervals does this rational function keep a constant sign?

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

A $(-\infty,-4)\cup(-4,-3)\cup(-3,-2)\cup(-2,\infty)$

B $(-\infty,-4)\cup(-4,-3)\cup(-3,2)\cup(2,\infty)$

C $(-\infty,-4)\cup(-4,-3)\cup(-3,\infty)$

D $(-\infty,-4)\cup(-4,-3)\cup(-3,-1)\cup(-1,\infty)$