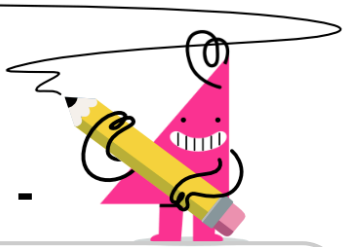
Name



Rational Function Inequalities - Two Factors with Multiplicity over Binomial - Solution Set

1

Which set of values satisfies this inequality? $\frac{(x+3)(x+2)^4}{x} > 0$

A $(-\infty, -3) \cup (0, \infty)$

B $(-3, -2) \cup (0, \infty)$

C $(-\infty, -3) \cup (-3, 0) \cup (0, \infty)$

D $(-3, 0)$

2

Which set of values satisfies this inequality? $\frac{(x+3)^3(x-1)^2}{x-4} < 0$

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

B $(-3, 4)$

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

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

3

Which set of values satisfies this inequality? $\frac{(x+4)(x-1)^4}{x} > 0$

A $(-\infty, -4) \cup (-4, 0) \cup (0, \infty)$

B $(-4, 0)$

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

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

4

Which set of values satisfies this inequality? $\frac{(x+2)^4(x+1)^5}{x} < 0$

A $(-1, 0)$

B $(-\infty, -1) \cup (0, \infty)$

C $(-\infty, -2) \cup (-1, 0)$

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

5

Which set of values satisfies this inequality? $\frac{(x-1)^5(x-3)^4}{x+2} > 0$

A $(-2, 1)$

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

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

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

6

Which set of values satisfies this inequality? $\frac{(x+4)^4(x-2)^3}{x+1} < 0$

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

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

C $(-1, 2)$

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

7

Which set of values satisfies this inequality? $\frac{(x+3)^4(x-1)}{x+4} < 0$

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

B $(-4, 1)$

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

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

8

Which set of values satisfies this inequality? $\frac{x^4(x-4)}{x-1} < 0$

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

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

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

D $(1, 4)$