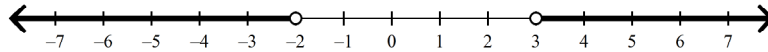


**Graph Quadratic Inequalities on a number line****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

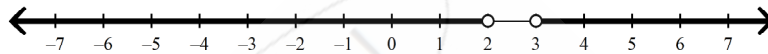
\_\_\_\_ 1.



Which of the following is the inequality for the graph?

- |                     |                     |
|---------------------|---------------------|
| a. $(x-3)(x+2) > 0$ | c. $(x-3)(x-2) > 0$ |
| b. $(x+3)(x-2) > 0$ | d. $(x+3)(x+2) > 0$ |

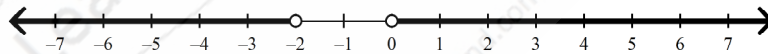
\_\_\_\_ 2.



Which of the following is the inequality for the graph?

- |                       |                        |
|-----------------------|------------------------|
| a. $x^2 - 5x - 6 < 0$ | c. $-x^2 - 5x + 6 < 0$ |
| b. $x^2 - 5x + 6 < 0$ | d. $-x^2 + 5x - 6 < 0$ |

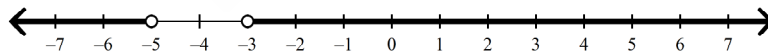
\_\_\_\_ 3.



Which of the following is the inequality for the graph?

- |                         |                         |
|-------------------------|-------------------------|
| a. $x^2 + 2x - 8 > -8$  | c. $x^2 - 2x + 8 > -8$  |
| b. $-x^2 - 2x - 8 > -8$ | d. $-x^2 - 2x + 8 > -8$ |

\_\_\_\_ 4.



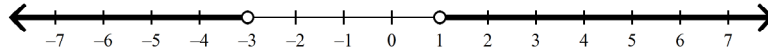
Which of the following is the inequality for the graph?

- |                              |                              |
|------------------------------|------------------------------|
| a. $-x^2 - 3x - 6 > -5x - 9$ | c. $-x^2 - 3x + 6 > -5x - 9$ |
| b. $x^2 + 3x + 6 > -5x - 9$  | d. $x^2 - 3x - 6 > -5x - 9$  |

**Multiple Response**

Identify one or more choices that best complete the statement or answer the question.

\_\_\_\_\_ 5.



Which two of the following are inequalities for the graph?

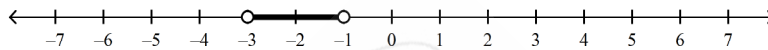
a.  $-(x-3)(x+1) < 0$

c.  $-x^2 + 2x - 3 < 0$

b.  $-x^2 - 2x + 3 < 0$

d.  $-(x+3)(x-1) < 0$

\_\_\_\_\_ 6.



Which two of the following are inequalities for the graph?

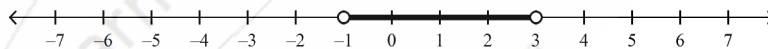
a.  $x^2 - 4x - 9 < 6$

c.  $(x-3)(x-1) < 0$

b.  $(x+3)(x+1) < 0$

d.  $x^2 + 4x + 9 < 6$

\_\_\_\_\_ 7.



Which two of the following are inequalities for the graph?

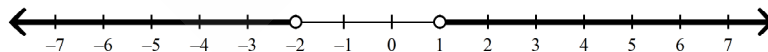
a.  $(x-3)(x+1) < 0$

c.  $x^2 - 5x + 1 < -3x + 4$

b.  $(x+3)(x-1) < 0$

d.  $x^2 + 5x - 1 < -3x + 4$

\_\_\_\_\_ 8.



Which two of the following are inequalities for the graph?

a.  $-x^2 - 6x + 14 < 7x - 16$

c.  $-x^2 + 6x - 14 < 7x - 16$

b.  $-(x+2)(x-1) < 0$

d.  $-(x-2)(x+1) < 0$

## Graph Quadratic Inequalities on a number line

### Answer Section

#### MULTIPLE CHOICE

1. ANS: A
2. ANS: D
3. ANS: A
4. ANS: B

#### MULTIPLE RESPONSE

5. ANS: B, D
6. ANS: B, D
7. ANS: A, C
8. ANS: B, C

