

# Midpoint and Distance in the Coordinate Plane Exit Quiz

## Multiple choices

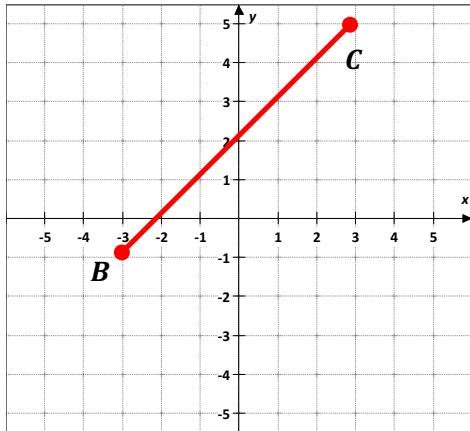
1. The endpoints of  $\overline{AB}$  are  $A(4, 2)$  and  $B(1, -2)$ . What are the coordinates of the midpoint of  $\overline{AB}$ ?

- a.  $(2.5, 0)$
- b.  $(2.5, 0.5)$
- c.  $(1.5, 0)$
- d.  $(0, 2.5)$

2. What is the distance between  $(6, 1)$  and  $(1, -9)$ ?

- a.  $\sqrt{5}$
- b.  $\sqrt{89}$
- c.  $5\sqrt{5}$
- d.  $2\sqrt{5}$

3. What is the midpoint of segment  $\overline{BC}$  shown in the graph?



- a.  $(1, 2)$
- b.  $(0, 2)$
- c.  $(2, 2)$
- d.  $(2, 0)$

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## **Midpoint and Distance in the Coordinate Plane** Exit Quiz

4. Determine the point ***B*** on the ***y***-axis that is equidistant from ***F*(3, 1)** and ***H*(4, -1)**

5. Determine if ***D*(1, 5)**, ***B*(8, 1)** and ***H*(1, 1)** are the vertices of a right triangle.