

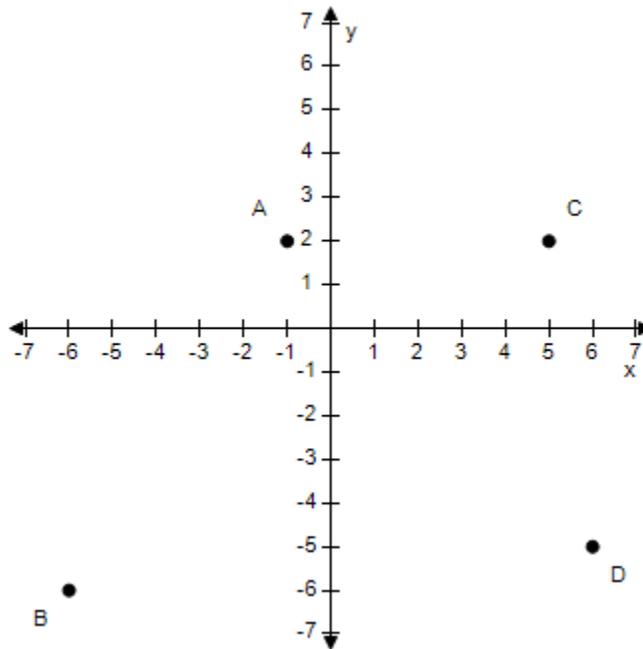
Name
Date

MAT 231
Homework Assignment 1

Chapter 1.1 -Rectangular Coordinates

Directions: Provide complete responses to each question.

1. Approximate the coordinates of the points.



- a. $A: (4, 2)$, $B: (-6, -6)$, $C: (5, 2)$, $D: (6, -5)$
- b. $A: (1, 2)$, $B: (-6, -6)$, $C: (5, 2)$, $D: (6, -5)$
- c. $A: (2, 2)$, $B: (-6, -6)$, $C: (5, 2)$, $D: (6, -5)$
- d. $A: (3, 2)$, $B: (-6, -6)$, $C: (5, 2)$, $D: (6, -5)$
- e. $A: (-1, 2)$, $B: (-6, -6)$, $C: (5, 2)$, $D: (6, -5)$

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2. A point is located six units to the left of the y -axis and seven units above the x -axis.
Find the coordinates of the point.

- a. $(-6, 7)$
- b. $(7, 6)$
- c. $(-6, -7)$
- d. $(6, -7)$
- e. $(6, 7)$

3. Determine the quadrant(s) in which (x, y) is located so that the condition(s) is (are) satisfied.

$$x < -8 \text{ and } y < -6$$

- a. Quadrant I
- b. Quadrant I and II
- c. Quadrant III
- d. Quadrant II
- e. Quadrant IV

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4. Find the distance between the points.

$$(-8, -5), (-2, 3)$$

- a. 10
- b. 100
- c. 2
- d. 5
- e. 8

5. The point A has coordinates $(-3, 5)$. If A is moved 3 units upward 6 units to the left, what are the new coordinates of A ?

- a. $(0, -1)$ b. $(3, 8)$
- c. $(0, 11)$ d. $(-9, 8)$
- e. $(3, 2)$