

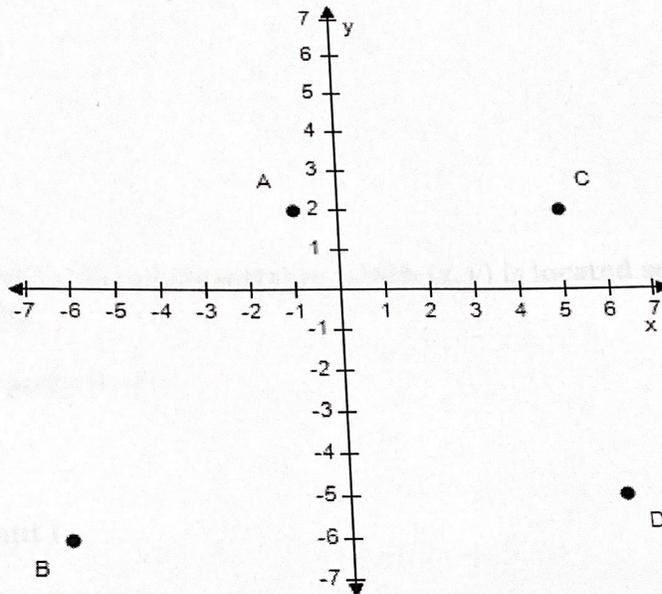
Name  
Date

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.  $(0, -1)$   ~~$(-9, 8)$~~

c.  $(0, 11)$   d.  $(-9, 8)$

e.  $(3, 2)$