

**Test Bank for Applied Mathematics for the Managerial Life and
Social Sciences 6th Edition Tan 1133108946
9781133108948**

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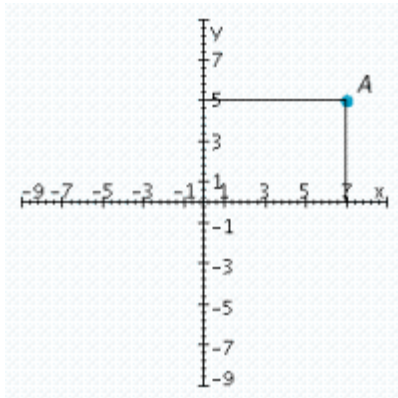
Test Bank:

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Section 2.1

MULTIPLE CHOICE

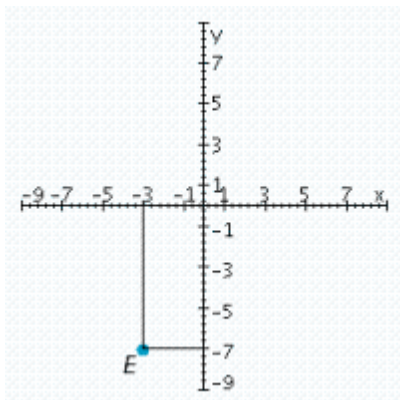
1. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



- a. $(7, 5)$; Quadrant III
- b. $(-7, -5)$; Quadrant IV
- c. $(7, 5)$; Quadrant I
- d. $(-7, 5)$; Quadrant II

ANS: C PTS: 1

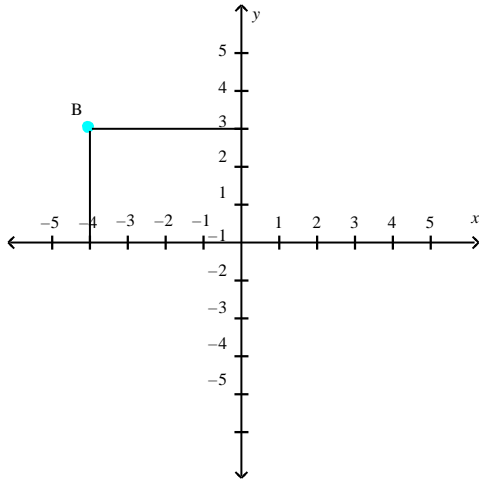
2. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



- a. $(-3, 7)$; Quadrant II
- b. $(3, 7)$; Quadrant I
- c. $(-3, -7)$; Quadrant IV
- d. $(-3, -7)$; Quadrant III

ANS: D PTS: 1

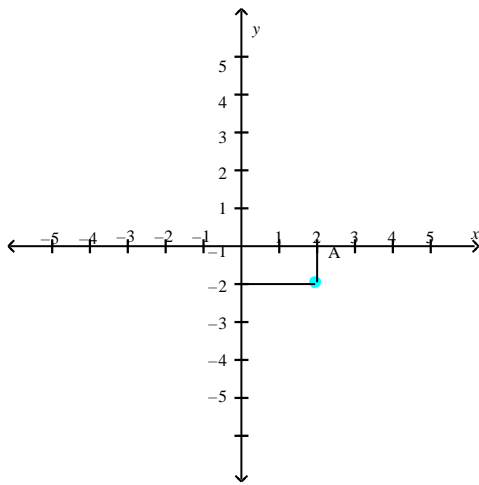
3. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



- a. $(4, 3)$; Quadrant I
- b. $(-4, 3)$; Quadrant II
- c. $(-4, 0)$; Quadrant II
- d. $(-4, -3)$; Quadrant III
- e. $(4, -3)$; Quadrant IV

ANS: B PTS: 1

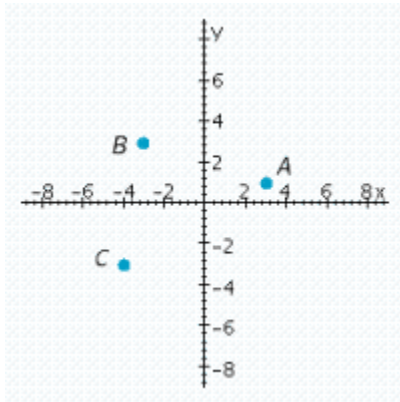
4. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



- a. $(2, 1)$; Quadrant I
- b. $(2, -1)$; Quadrant IV
- c. $(-2, -1)$; Quadrant III
- d. $(-2, 1)$; Quadrant II
- e. $(-2, 0)$; Quadrant II

ANS: B PTS: 1

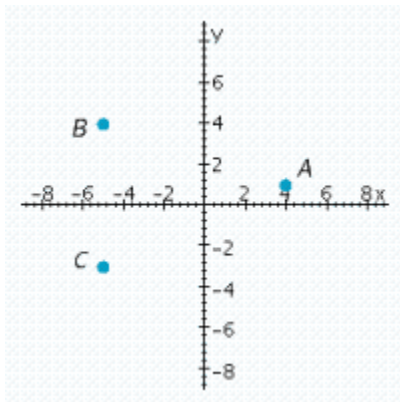
5. Which point has coordinates $(-3, 3)$?



- a. *A*
- b. *C*
- c. *B*

ANS: C PTS: 1

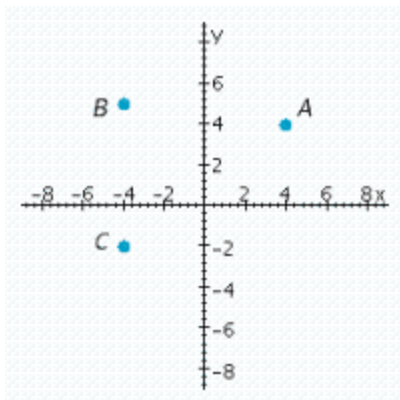
6. What are the coordinates of point *B*?



- a. (-5, 4)
- b. (-5, -3)
- c. (4, 1)

ANS: A PTS: 1

7. Which point has a negative *x*-coordinate and a negative *y*-coordinate?

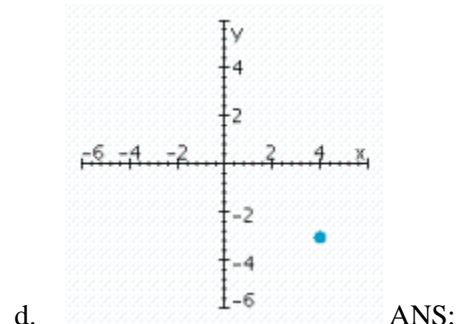
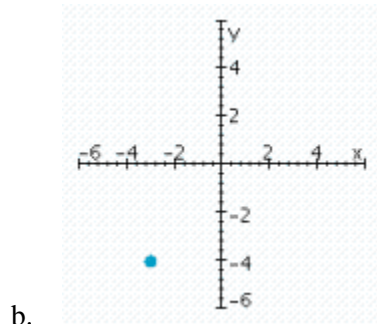
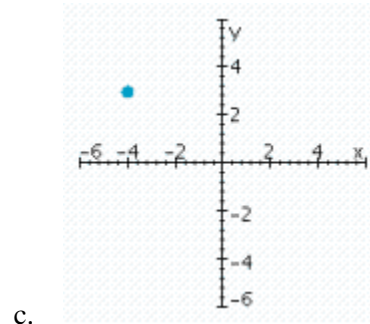
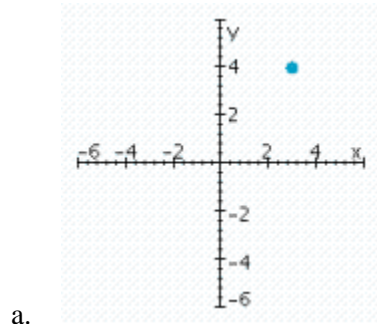


- a. *B*
- b. *C*
- c. *A*

ANS: B PTS: 1

8. Sketch a set of coordinate axes and plot the given point.

$(-4, 3)$

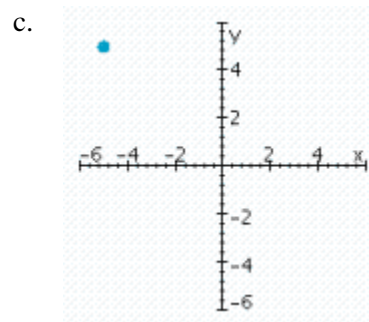
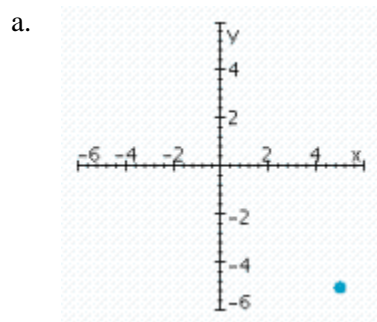


b.
 C PTS: 1

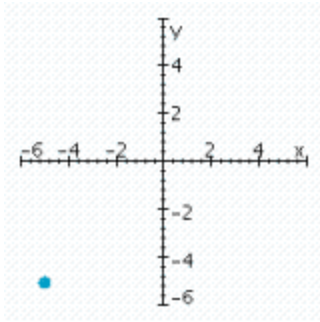
ANS:

9. Sketch a set of coordinate axes and plot the given point.

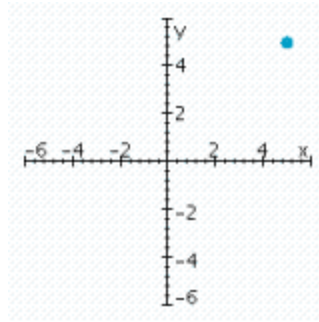
$(5, 5)$



b.



d.



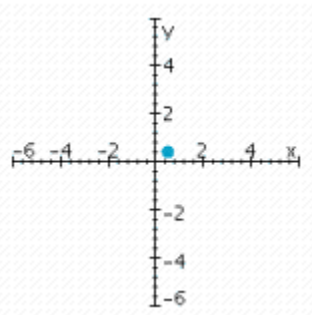
ANS: D

PTS: 1

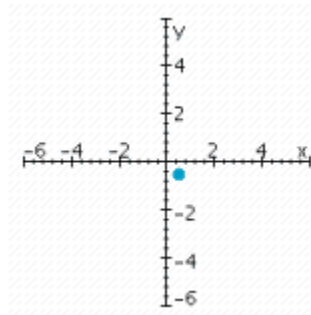
10. Sketch a set of coordinate axes and plot the given point.

$$\left(-\frac{1}{2}, \frac{1}{2}\right)$$

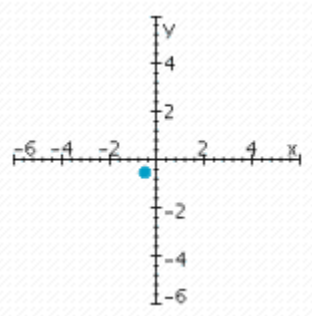
a.



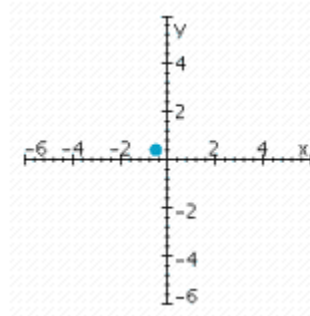
c.



b.



d.



ANS:

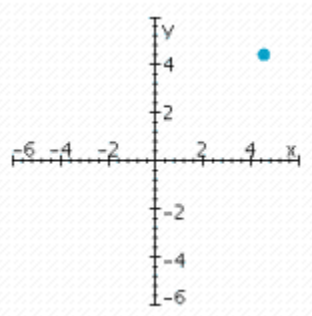
D

PTS: 1

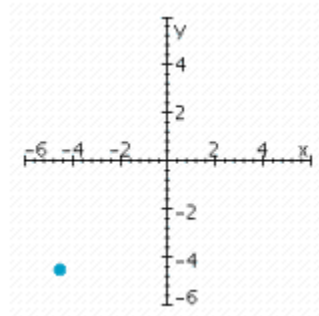
11. Sketch a set of coordinate axes and plot the given point.

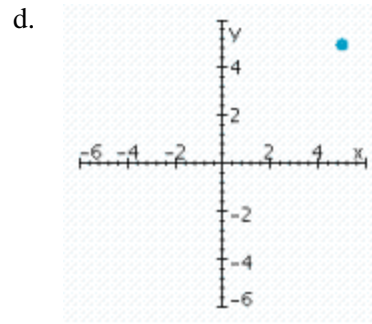
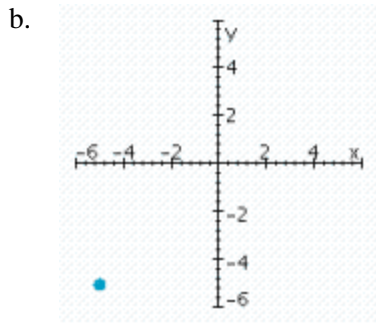
$$(4.5, -4.5)$$

a.



c.

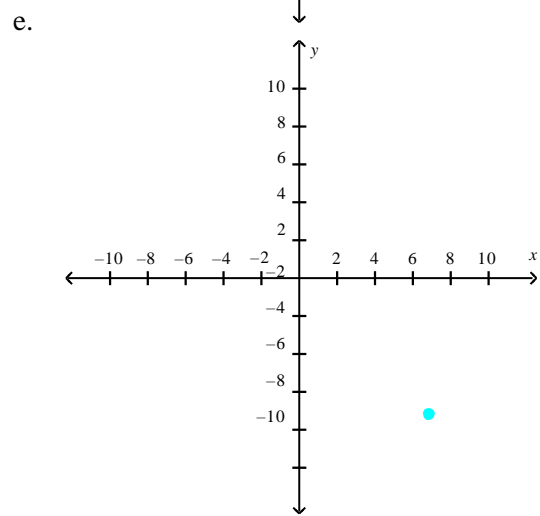
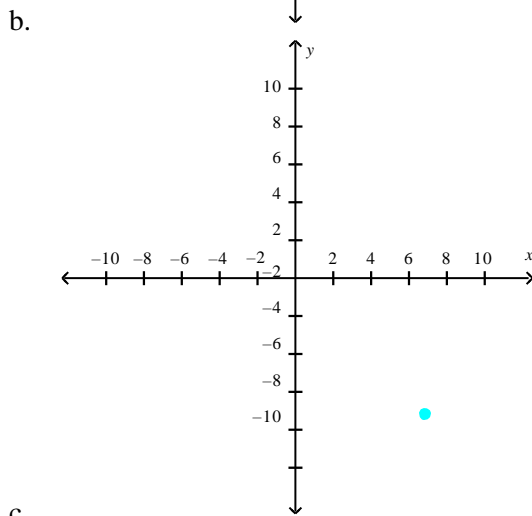
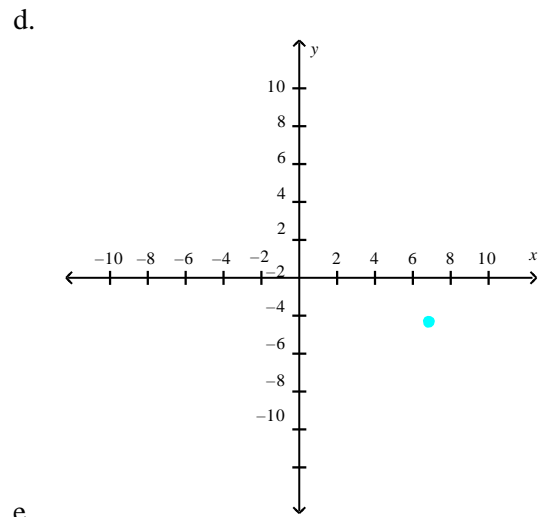
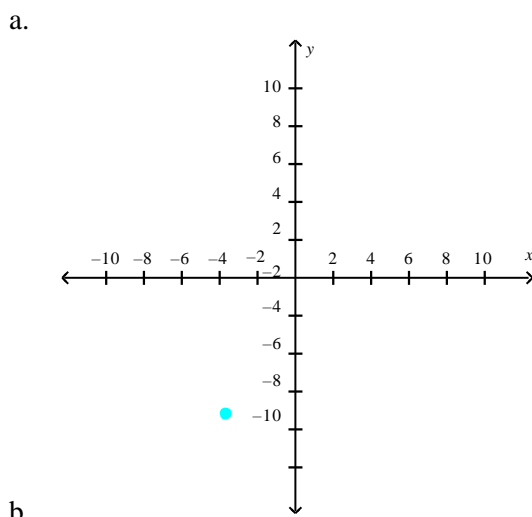




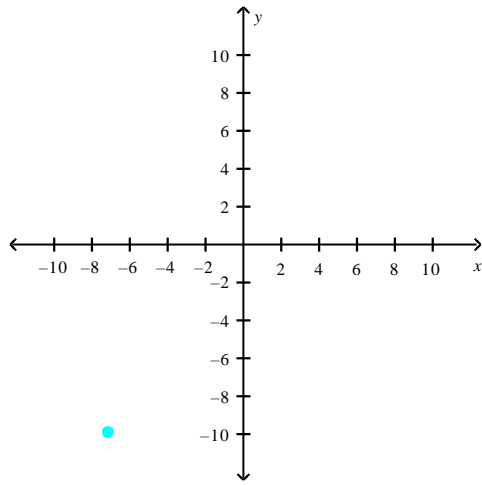
ANS: D PTS: 1

12. Sketch a set of coordinate axes and plot the given point.

$(7, -10)$



c.



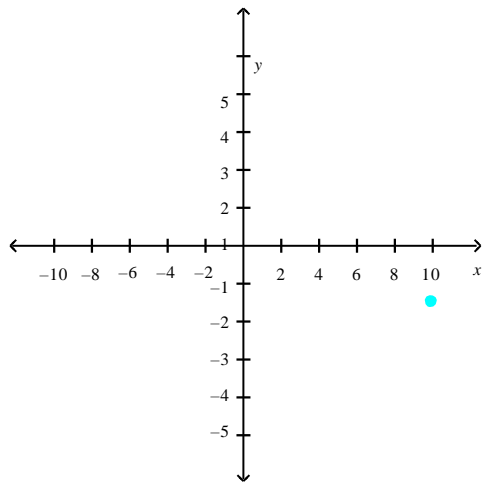
ANS: B

PTS: 1

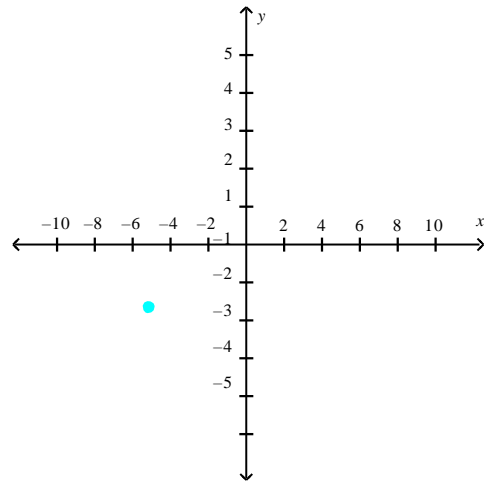
13. Sketch a set of coordinate axes and plot the given point.

$$\left(10, -\frac{3}{2}\right)$$

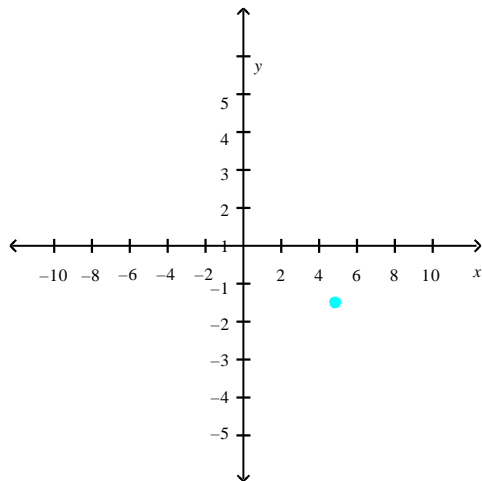
a.



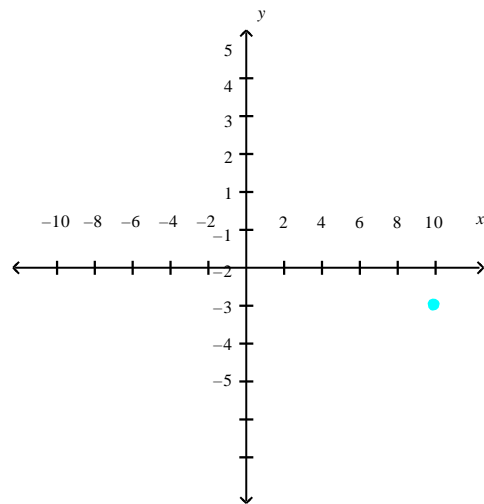
d.



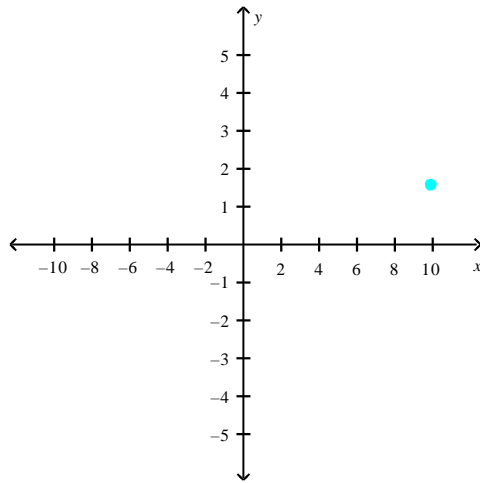
b.



e.



c.



ANS: A

PTS: 1

14. Find the slope of the line that passes through the given pair of points.

$(-1, 2)$ and $(3, 4)$

- a. $m = -\frac{2}{1}$
- b. $m = -\frac{1}{2}$
- c. $m = \frac{2}{1}$
- d. $m = \frac{1}{2}$

ANS: D

PTS: 1

15. Find the slope of the line that passes through the given pair of points.

$(2, 2)$ and $(8, 5)$

- a. $\frac{1}{2}$
- b. -2
- c. $\frac{10}{7}$
- d. $\frac{7}{8}$
- e. $\frac{1}{2}$

ANS: E

PTS: 1

16. Find the slope of the line that passes through the pair of points.

$(-a + 1, b - 1)$ and $(a + 1, -b)$

- a. $m = \frac{1 - 2b}{2a}$
- b. $m = \frac{2b - 1}{2a}$
- c. $m = \frac{2b}{1 - 2a}$
- d. $m = \frac{2a}{1 - 2b}$
- e. $m = \frac{1 - 2b}{2a + 1}$

ANS: A PTS: 1

17. Determine whether the lines through the given pairs of points are parallel.

$A(2, -3)$, $B(-2, -11)$ and $C(1, 2)$, $D(-1, 6)$

- a. The lines through the given pairs of points are not parallel.
- b. The lines through the given pairs of points are parallel.

ANS: A PTS: 1

18. Determine whether the lines through the pair of points are parallel.

$A(1, 3)$, $B(1, -5)$ and $C(-1, 4)$, $D(-1, 2)$

- a. yes
- b. no

ANS: A PTS: 1

19. If the line passing through the points $(2, a)$ and $(5, -3)$ is parallel to the line passing through the points $(4, 8)$ and $(-5, a + 1)$, what is the value of a ?

- a. $a = -8$
- b. $a = 4$
- c. $a = -4$
- d. $a = 8$

ANS: A PTS: 1

20. If the line passing through the points $(a, 2)$ and $(6, 7)$ is parallel to the line passing through the points $(4, 8)$ and $(a + 3, 2)$, what is the value of a ?

- a. $a = 32$
- b. $a = 35$
- c. $a = 31$
- d. $a = 34$
- e. $a = 33$

ANS: C PTS: 1