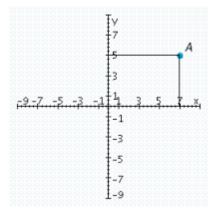
## **Applied Mathematics for the Managerial Life and Social Sciences 6th Edition Tan Test Bank**

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# Section 2.1

#### **MULTIPLE CHOICE**

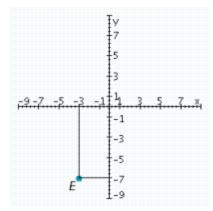
1. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



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

ANS: C PTS: 1

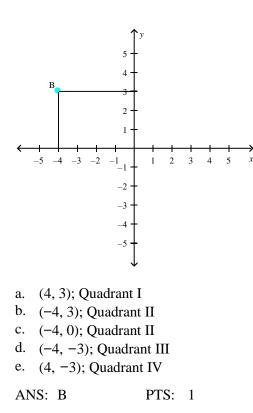
2. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



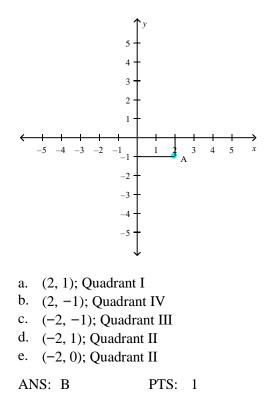
- a. (-3,7); Quadrant II
- b. (3, 7); Quadrant I
- c. (-3, -7); Quadrant IV
- d. (- 3, 7); Quadrant III

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

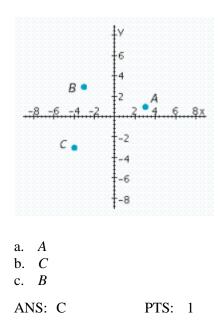
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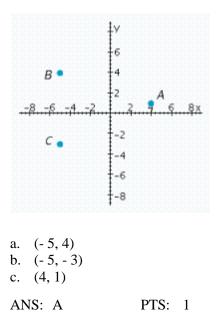
4. Refer to the accompanying figure and determine the coordinates of the given point and the quadrant in which it is located.



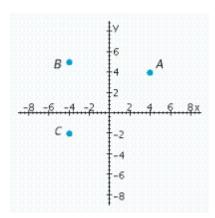
5. Which point has coordinates (- 3, 3)?



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

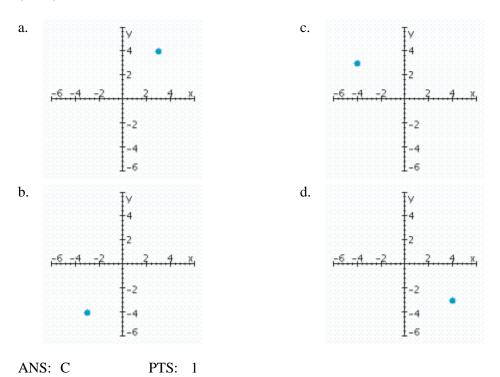


7. Which point has a negative *x*-coordinate and a negative *y*-coordinate?

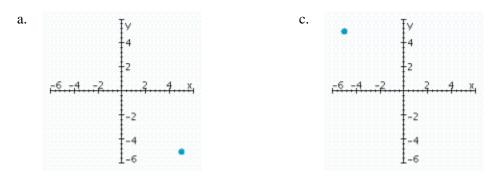


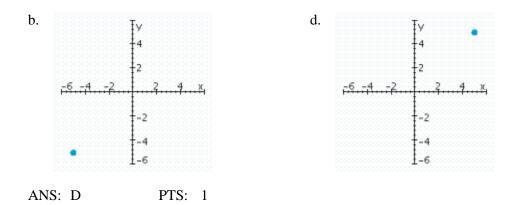
| a. | В     |      |   |
|----|-------|------|---|
| b. | С     |      |   |
| c. | A     |      |   |
| ٨N | NS: B | PTS: | 1 |

- 8. Sketch a set of coordinate axes and plot the given point.
  - (-4,3)

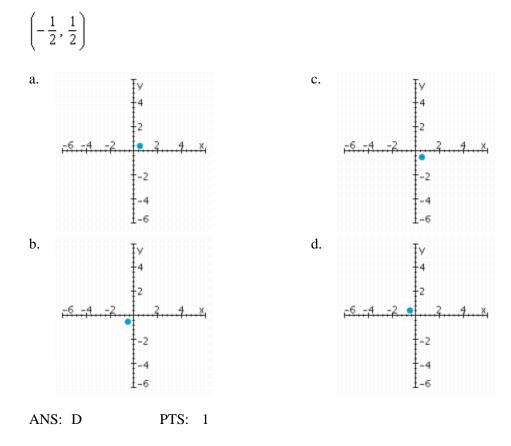


- 9. Sketch a set of coordinate axes and plot the given point.
  - (5, 5)



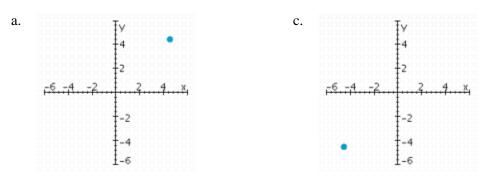


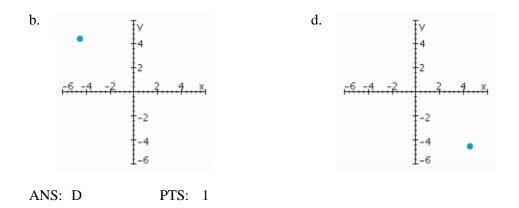
10. Sketch a set of coordinate axes and plot the given point.



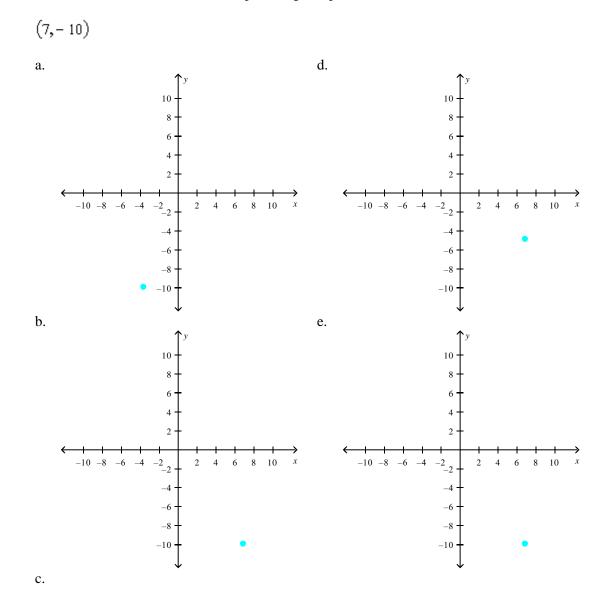
11. Sketch a set of coordinate axes and plot the given point.

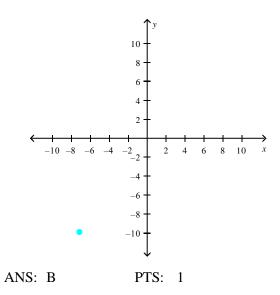


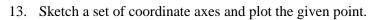


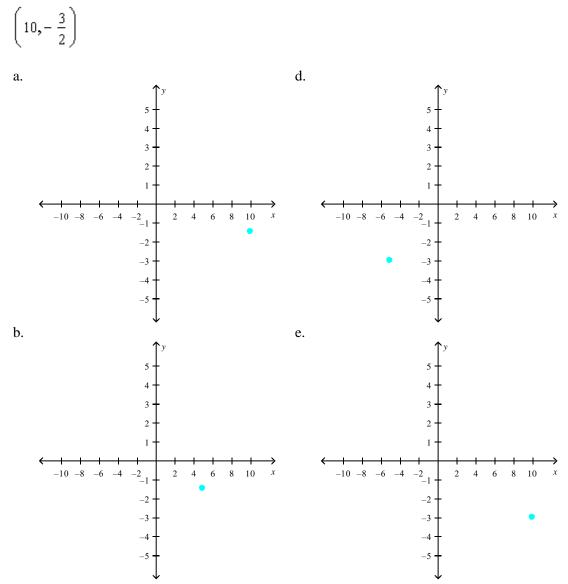


12. Sketch a set of coordinate axes and plot the given point.

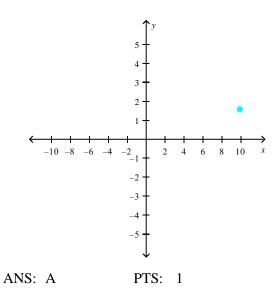




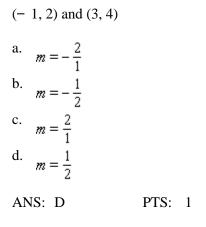




c.



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



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. -2c. 10 7 d. 7 8 e. 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)

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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 = -8b. a = 4c. a = -4d. a = 8ANS: 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.  $\alpha = 32$ b.  $\alpha = 35$ c.  $\alpha = 31$ d.  $\alpha = 34$ e.  $\alpha = 33$ ANS: C PTS: 1