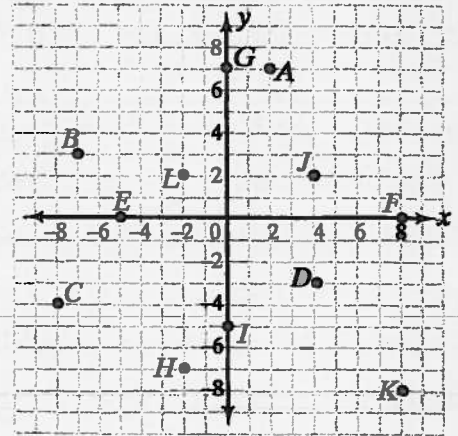


# Practice 10-1

## Graphing Points in Four Quadrants

Name the point with the given coordinates.

1.  $(-2, 2)$  \_\_\_\_\_
2.  $(8, 0)$  \_\_\_\_\_
3.  $(4, -3)$  \_\_\_\_\_
4.  $(-7, 3)$  \_\_\_\_\_
5.  $(0, -5)$  \_\_\_\_\_
6.  $(-8, -4)$  \_\_\_\_\_



Write the coordinates of each point.

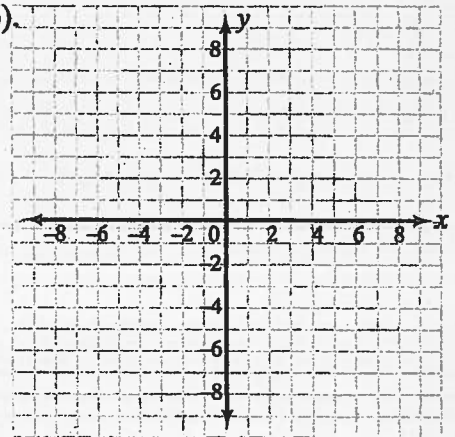
7. E \_\_\_\_\_
8. A \_\_\_\_\_
9. H \_\_\_\_\_
10. K \_\_\_\_\_
11. G \_\_\_\_\_
12. J \_\_\_\_\_

Identify the quadrant in which each point lies.

13.  $(-4, 3)$  \_\_\_\_\_
14.  $(7, 21)$  \_\_\_\_\_
15.  $(5, -8)$  \_\_\_\_\_
16.  $(-2, -7)$  \_\_\_\_\_

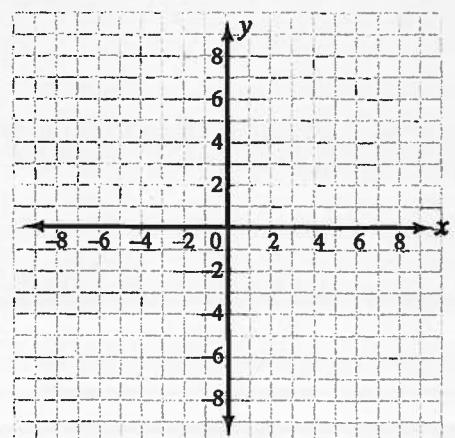
17. Three vertices of a trapezoid are  $(0, 6)$ ,  $(-6, -1)$ , and  $(-6, -6)$ . Find coordinates of a fourth vertex that would make this figure a proper trapezoid with one right angle.

- On the grid at the right, graph the three vertices and draw the two sides.
- Graph the fourth vertex of the trapezoid and draw the other two sides. What are the coordinates of the fourth vertex?



Graph each polygon on the grid at the right. Use  $(0, 0)$  as one vertex and label all vertices.

18. a square with sides 5 units long
19. a square with sides 4 units long
20. a rectangle with horizontal length 5 units and vertical length 3 units
21. a rectangle with horizontal length 3 units and vertical length 6 units



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# Reteaching 10-1

## Graphing Points in Four Quadrants

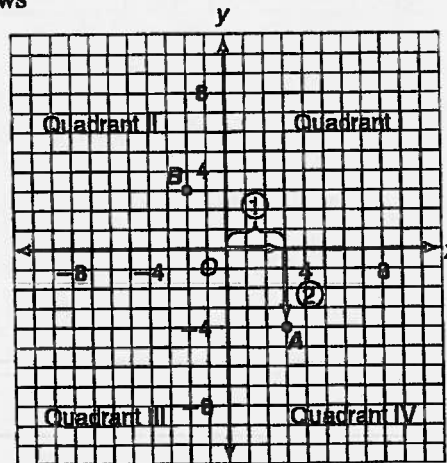
The intersection of a horizontal number line and a vertical number line forms the **coordinate plane**. The coordinate plane below shows point *A* for the ordered pair  $(3, -4)$ .

To graph point *A* with coordinates  $(3, -4)$ :

- ① Start at the origin, *O*. Move 3 units to the right.
- ② Move 4 units down for  $-4$ . Draw point *A*.

The axes form four **quadrants** in the coordinate plane.

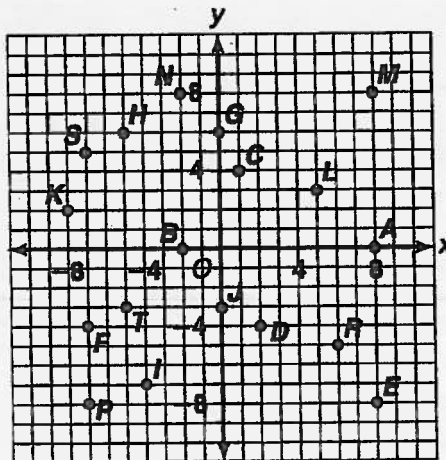
- The point  $(3, -4)$  is located in quadrant IV.
- Point *B* is located in quadrant II.



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Name the point with the given coordinates.

- |                    |                     |
|--------------------|---------------------|
| 1. $(8, 0)$ _____  | 2. $(8, -8)$ _____  |
| 3. $(1, 4)$ _____  | 4. $(-7, -4)$ _____ |
| 5. $(6, -5)$ _____ | 6. $(-5, -3)$ _____ |



Write the coordinates of each point.

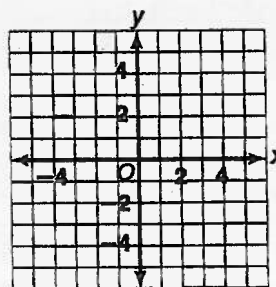
- |                    |                    |
|--------------------|--------------------|
| 7. <i>D</i> _____  | 8. <i>G</i> _____  |
| 9. <i>I</i> _____  | 10. <i>J</i> _____ |
| 11. <i>K</i> _____ | 12. <i>L</i> _____ |

Identify the quadrant in which each point lies.

- |                    |                    |                    |
|--------------------|--------------------|--------------------|
| 13. <i>F</i> _____ | 14. <i>C</i> _____ | 15. <i>D</i> _____ |
| 16. <i>N</i> _____ | 17. <i>P</i> _____ | 18. <i>S</i> _____ |

Graph the polygon on the grid at the right. Use  $(0, 0)$  as one vertex and label all vertices.

19. a square with side 6 units long
20. a rectangle with horizontal length 3 units and vertical length 6 units



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