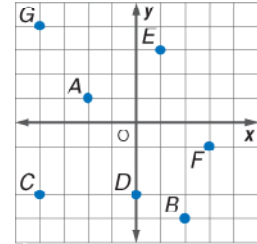


## Lesson 7-2

## Example 1

Give the coordinates of each.

- point  $C$
- two points in Quadrant IV



## Solution

- Point  $C$  is 4 units to the left of the origin and 3 units down from the origin. The coordinates of  $C$  are  $(-4, -3)$ .
- Points  $B$  and  $F$  are in Quadrant IV. Their coordinates are  $B(2, -4)$  and  $F(3, -1)$ .

## Example 2

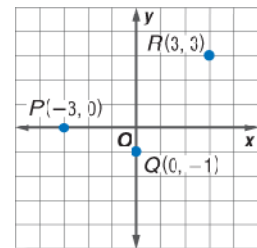
Graph points  $P(-3, 0)$ ,  $Q(0, -1)$ , and  $R(3, 3)$ .

## Solution

Point  $P$  is 3 units to the left of the origin and 0 units up or down.

Point  $Q$  is 0 units to the right or left of the origin and 1 unit down.

Point  $R$  is 3 units to the right of the origin and 3 units up.



**Example 3**

On a coordinate plane, sketch rectangle  $ABCD$  with diagonal having endpoints at  $A(-4, 2)$  and  $C(4, -2)$ .

**Solution**

Begin by graphing  $A(-4, 2)$  and  $C(4, -2)$  on a coordinate plane.

Graph  $B$  directly to the right of  $A$  and above  $C$ . The point  $B(4, 2)$  is a vertex of the rectangle.

Graph point  $D$  directly below  $A$  and to the left of  $C$ . The point  $D(-4, -2)$  is another vertex of the rectangle.

