101

8

-6

10

•¢

A• 6

-10 -8 -6 -4 -2

₿

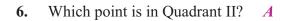
Module 10 Coordinate Geometry and Spatial Visualization Lesson 1 Points in a Coordinate Plane

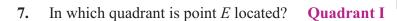
Write the ordered pair representing each point.



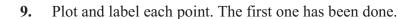
3.
$$C$$
 (5, -5)

5.
$$E$$
 (4, 2)

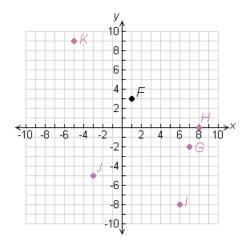








$$F(1,3)$$
 $G(7,-2)$ $H(8,0)$ $I(6,-8)$ $J(-3,-5)$ $K(-5,9)$



10. Juan plotted a point with coordinates (2, y). If the value of y is one plus three times the opposite of x, what is the value of y and in which quadrant is the point located in?

7

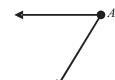
Journal

- 1. Explain how to plot the point whose coordinates are (4, -6).
- **2.** Into how many quadrants do the *x*-axis and *y*-axis divide the coordinate plane? Explain how they are numbered.
- **3.** Terri said the point whose coordinates are (0, -4) is located on the *x*-axis. Paul said the point is located on the *y*-axis. Who is correct and why?

Cumulative Review

1. Estimate $m \angle A$.

60°



2. Find the measure of the complement and supplement of an angle whose measure is 78° .

Complement: 12°

Supplement: 102°

Classify the triangle by its sides and by its angle measures.

3.



4.



Acute isosceles

Right scalene

Determine if a triangle with the given side lengths is a right triangle.

5. 12, 16, 20

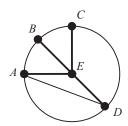
6. 8, 14, 17

Yes

No

For each segment in circle E, write radius, diameter, and/or chord.

- 7. \overline{BE} Radius
- 8. \overline{AD} Chord
- 9. \overline{BD} Chord, diameter
- 10. \overline{EC} Radius



Possible Journal Answers

- 1. To plot a point whose coordinates are (4, -6), start at the origin and move to the right four units because the x-coordinate (four) is positive. From that point, move down six units because the y-coordinate (-6) is negative. Draw a dot at that location.
- 2. The x-coordinate and y-coordinate divide the plane into four quadrants. The first quadrant is the top right quadrant. The quadrant numbers increase in a counterclockwise direction making the top left quadrant the second quadrant, the bottom left quadrant the third quadrant, and the bottom right quadrant the fourth quadrant. They are numbered with Roman numerals: I, II, III, and IV.
- 3. Paul is correct. To locate a point whose coordinates are (0, -4), start at the origin and move zero units on the *x*-axis. That means zero units right or left, which is the same as remaining at the origin. From there, move down four units. The point is on the vertical *y*-axis.