Practice 3-4

Graphing in the Coordinate Plane

Name the coordinates of each point in the graph.

1. J

2. R

_____   _____

3. K

4. M

_____   _____

5. I

6. P

_____   _____

7. N

8. L

_____   _____
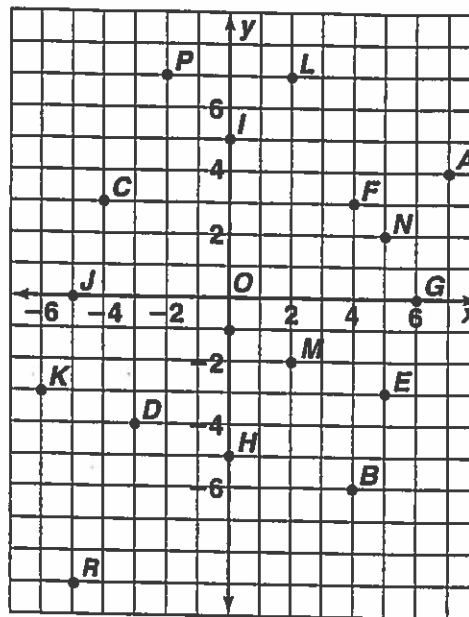
In which quadrant or on which axis is each point located?

9. $(-3, -2)$ 10. $(7, 0)$ 11. $(4, 0)$ 12. $(-3, -9)$

_____   _____   _____   _____

13. $(4, -7)$ 14. $(7, -5)$ 15. $(2, 9)$ 16. $(-3, 2)$

_____   _____   _____   _____

17. Arnie plotted points on the graph below. He placed his pencil point at A. He can move either right or down any whole number of units until he reaches point B. In how many ways can he do this?

_____

18. Marika had to draw $\triangle ABC$ that fit several requirements.

   a. It must fit in the box shown.

   b. The endpoints of $\overline{AB}$ have coordinates $A(-2, 0)$ and $B(2, 0)$.

   c. Point C must be on the y-axis and its y-coordinate is an integer.

   Name all the points that could be point C.
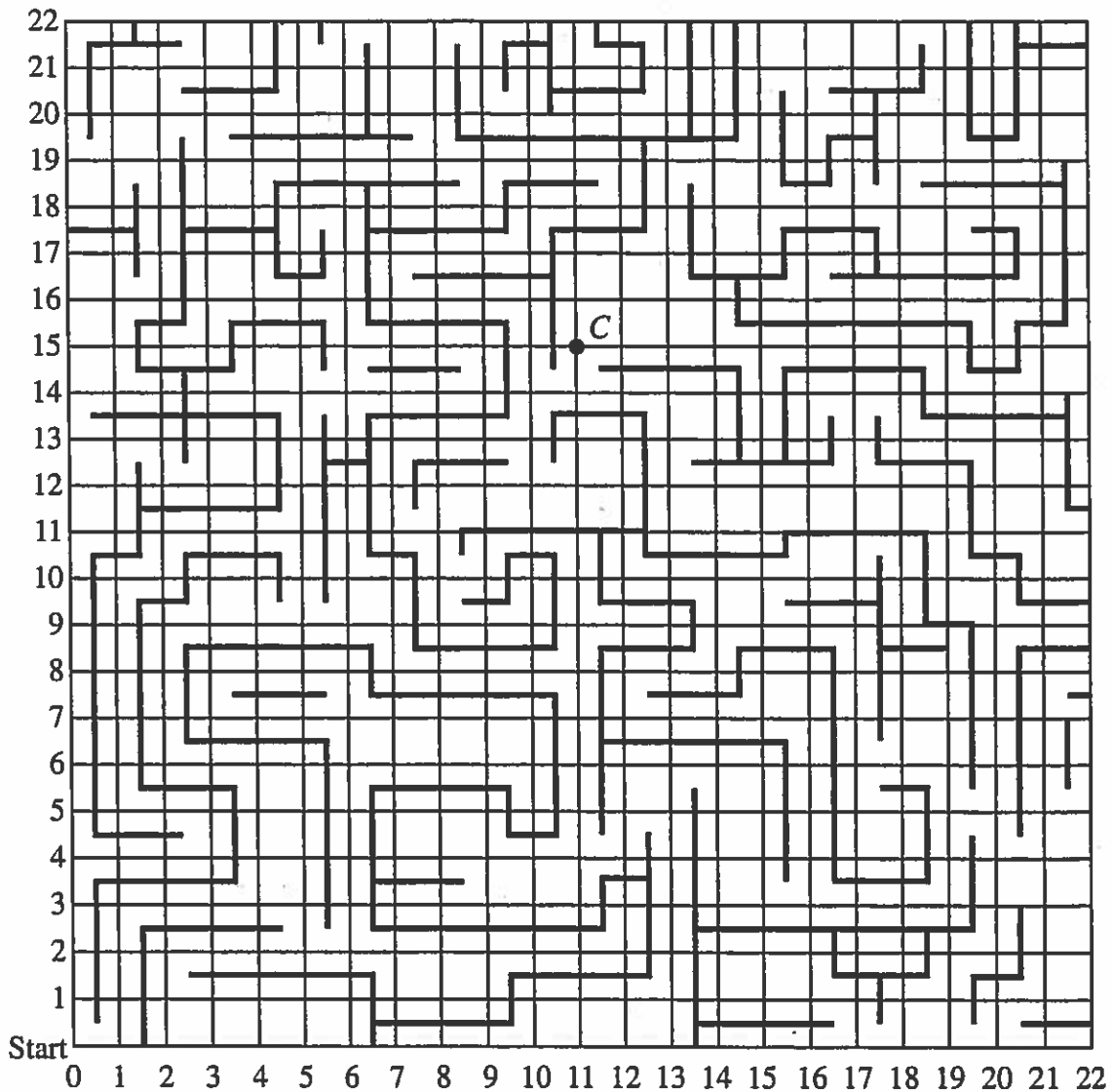
   _____

   _____
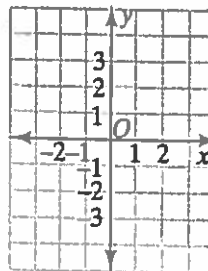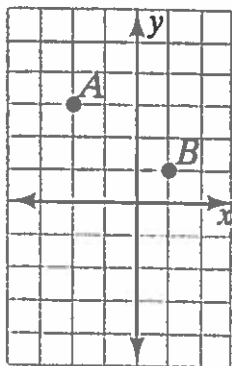
Puzzle 3-4

Graphing in the Coordinate Plane

A-Mazing Coordinates

Find a path from *Start* (0, 0) to point *C* (11, 15) in the maze. Then write, in order, the coordinates of each point where you turned.

$(0, 0)$ → _____ → _____ → _____ → _____ → _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____