

LESSON

3

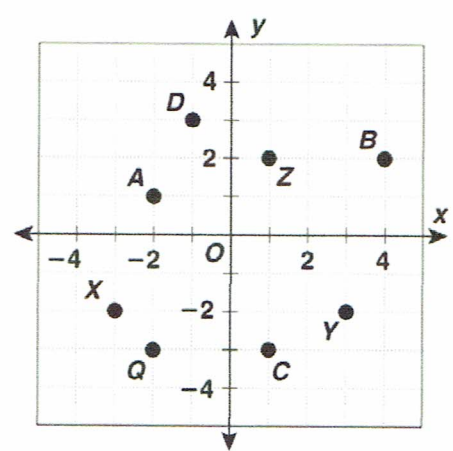
Integers and the Coordinate Plane

Practice C: The Coordinate Plane

Use the coordinate plane for Exercises 1–8.

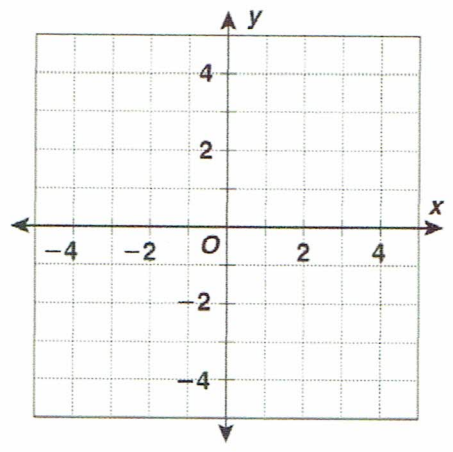
Name the quadrant where each point is located and give the coordinates for each point.

- | | |
|---------------|---------------|
| 1. Y
_____ | 2. D
_____ |
| 3. Z
_____ | 4. X
_____ |
| 5. C
_____ | 6. B
_____ |
| 7. A
_____ | 8. Q
_____ |



To rotate a point 180° about the origin, you graph the opposite of each coordinate. Write the ordered pair for the rotated point and then graph it.

- | | |
|-------------------------|--------------------------|
| 9. $P(1, 3)$
_____ | 10. $U(-2, 4)$
_____ |
| 11. $V(0, -1)$
_____ | 12. $T(-3, -2)$
_____ |



13. What patterns can you find between the coordinates of any point located in Quadrant I and the coordinates of any point located in Quadrant III?

14. On a city grid, the post office is located at $(3, -2)$ and the fire station is located at $(-2, 3)$. Which building is located the farthest west? the farthest south?
