Applied Algebra 2.2

Graph points on the coordinate plane

coordinate system

origin

y-axis

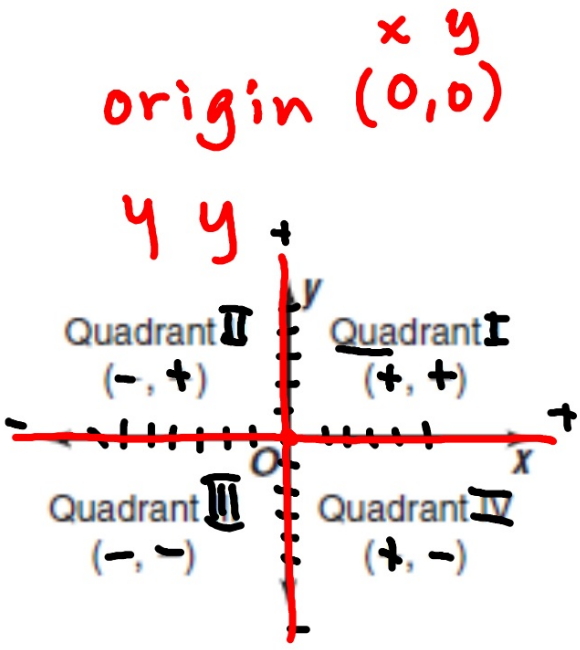
x-axis

ordered pair

x-coordinate

y-coordinate

quadrant



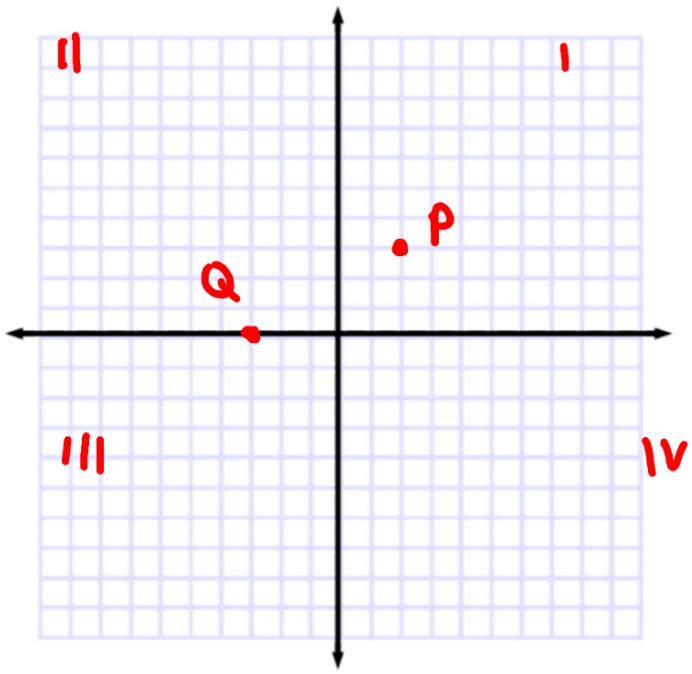
floor graphing

4 Graph $P(2, 3)$ on a coordinate plane.

↑ QI

5 Graph $Q(-3, 0)$ on a coordinate plane.

X-axis

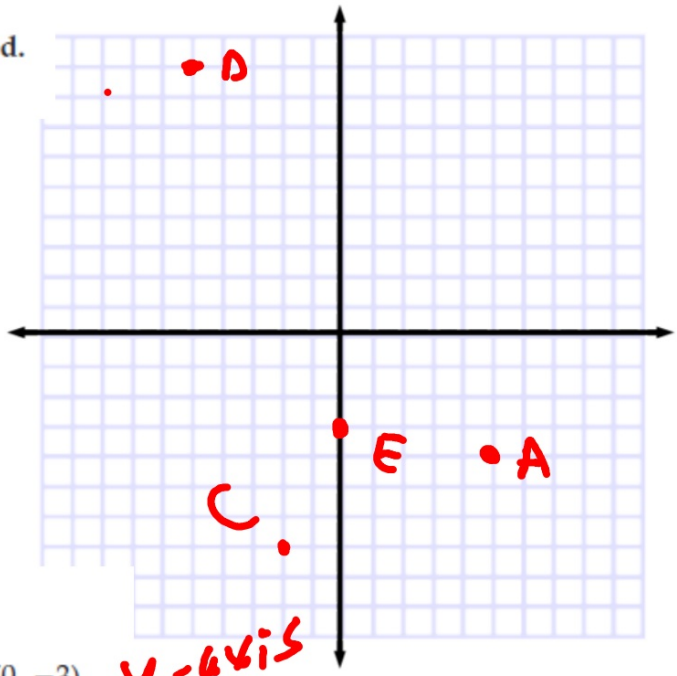


6 Name the quadrant in which each point is located.

$A(5, -4)$ IV

QIV

IV



Your Turn

h. $C(-2, -7)$ QIII

i. $D(-4, 9)$ QII

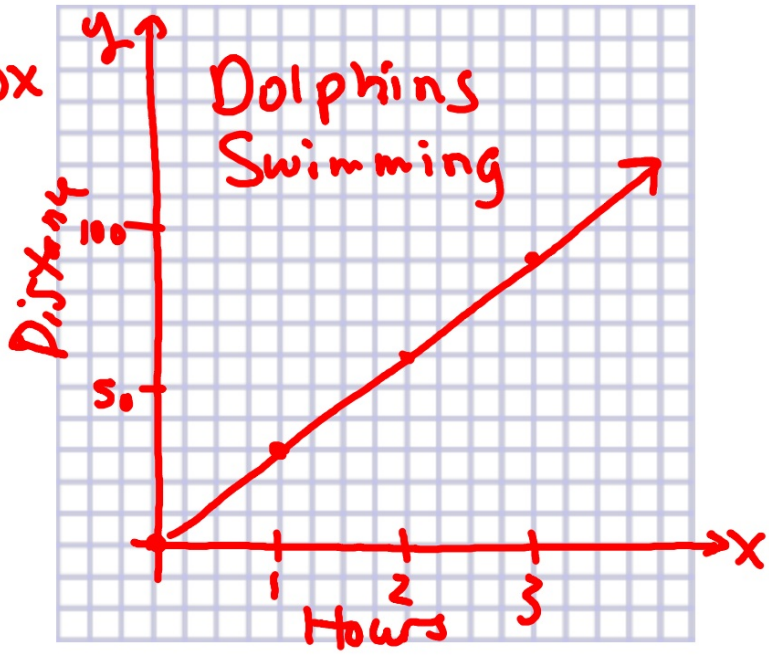
j. $E(0, -3)$ y-axis

What if it is on a quadrant line?

8 Dolphins can swim at 30 mph over long distances. Let x represent the number of hours. Then, $30x$ represents the total distance traveled. Evaluate the expression to find the distances traveled in 1, 2, and 3 hours. Then graph the ordered pairs (time, distance).

Time (hours)	Distance (miles)
x	$30x$
1	30
2	60
3	90

$y = 30x$



2.2 p. 62

12-32e 36

(2,5)

(-2,6)