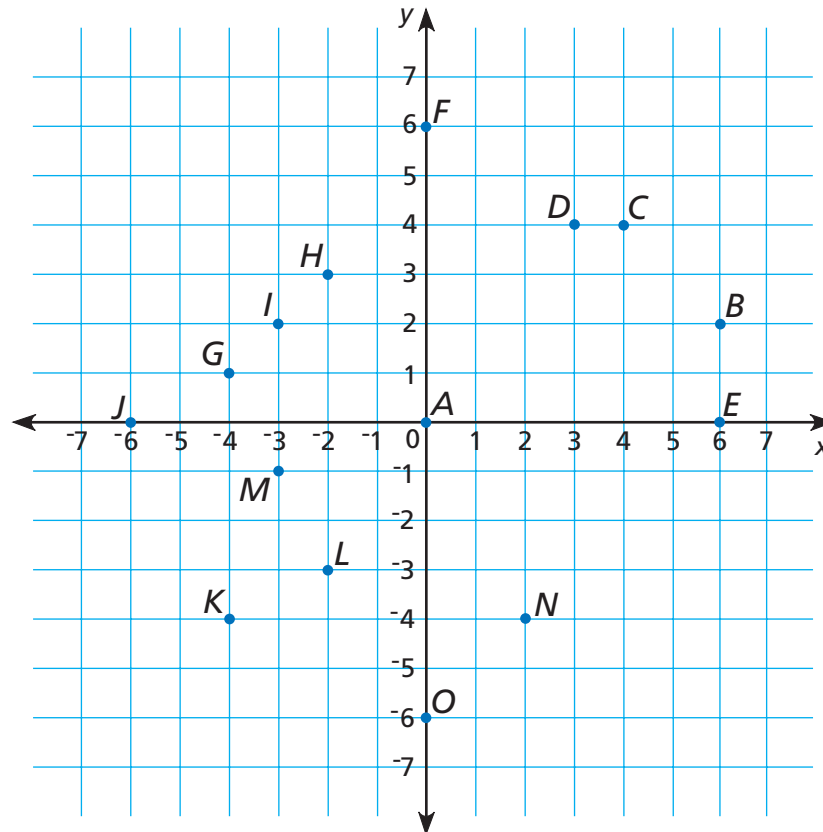


Graphing with Negative Numbers

NCTM Standards 3, 7, 8, 10

- 1 Write the coordinates for each labeled point, or locate and label the point.



A _____

F _____

K _____

P Find (2,6) and label it P.

B _____

G _____

L _____

Q Find (4,-4) and label it Q.

C _____

H _____

M _____

R Find (-5,-2) and label it R.

D _____

I _____

N _____

S Find (-1,4) and label it S.

E _____

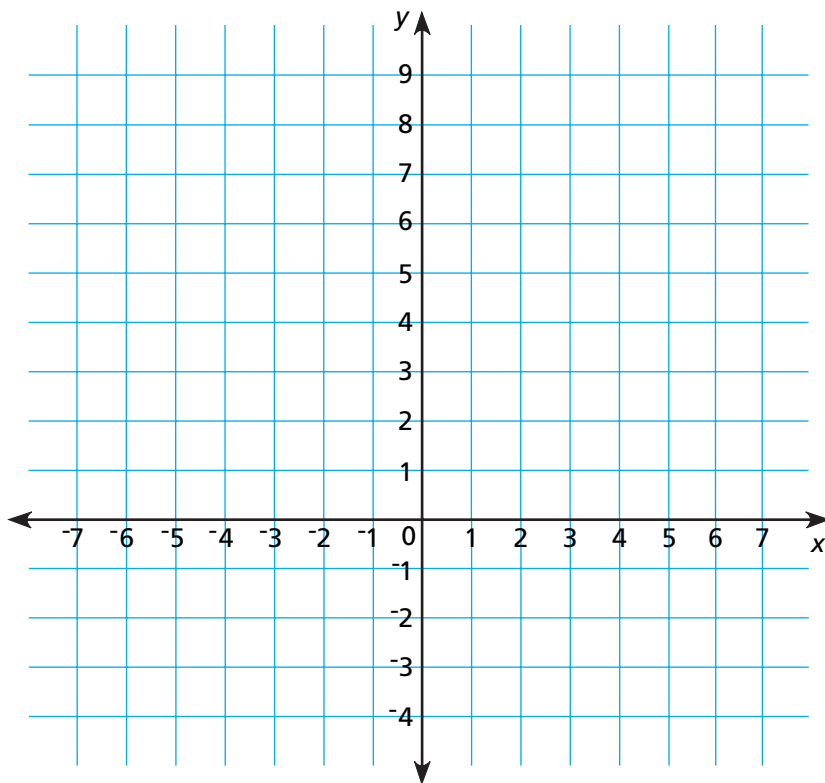
J _____

O _____

2 Graph the points in each list. Use the pattern that you see to find the missing coordinates, and graph those points too.

A $(4, -3)$, $(3, -1)$, $(2, \underline{\quad})$, $(1, \underline{\quad})$, $(0, \underline{\quad})$, $(-1, \underline{\quad})$, $(\underline{\quad}, 9)$

B $(6, 3)$, $(4, 2)$, $(2, 1)$, $(0, \underline{\quad})$, $(\underline{\quad}, -1)$, $(-4, \underline{\quad})$, $(\underline{\quad}, \underline{\quad})$



Which point is in both sets of points? _____

Challenge Choose the phrase that correctly completes the statement.

3 When two different points have the same x -coordinate, the line that connects them . . .

- A. must be vertical.
- B. must be horizontal.
- C. cannot be either vertical or horizontal.
- D. can go in any direction.

4 When two different points have the same y -coordinate, the line that connects them . . .

- A. must be vertical.
- B. must be horizontal.
- C. cannot be either vertical or horizontal.
- D. can go in any direction.