

Lesson 12.1: Coordinate Plane

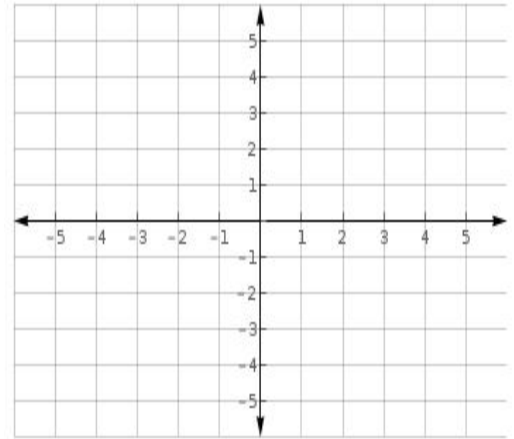
Targets

1. I can graph points on the coordinate plane.
2. I can use the coordinate plane to answer questions about a real situation.

Coordinate Plane: Graphing Points and Naming Quadrants

First attempt this problem on your own. Then watch the video and copy his notes.

- Plot $(4, -1)$ and select the quadrant in which the point lies.
- What quadrant is this point in?
 - Quadrant 1
 - Quadrant 2
 - Quadrant 3
 - Quadrant 4



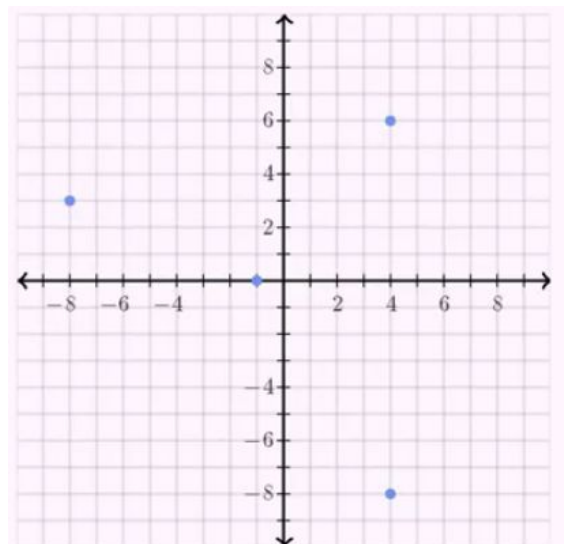
Khan Activity: Graphing Points and Naming Quadrants

Complete this activity on Khan.

Coordinate Plane: Have all the points been graphed?

First attempt this problem on your own. Then watch the video and copy his notes.

- Consider the following coordinate pairs:
 $(3, -2)$ $(4, -8)$ $(-8, 3)$ $(4, 6)$ $(-1, 0)$
- Which of those pairs is not graphed below?



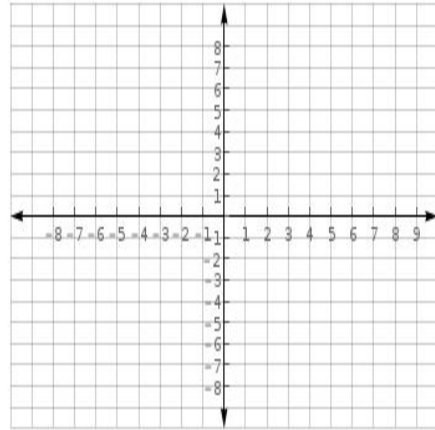
Khan Activity: Points on the Coordinate Plane

Complete this activity on Khan.

Coordinate Plane: Word Problem Exercise

First attempt this problem on your own. Then watch the video and copy his notes.

- Milena's town is built on a grid similar to the coordinate plane. She is riding her bicycle from her home at point $(-3,4)$ to the mall at point $(-3,-7)$. Each unit on the grid denotes one city block.
- Plot the two points.
- How many blocks is Milena's home from the mall?



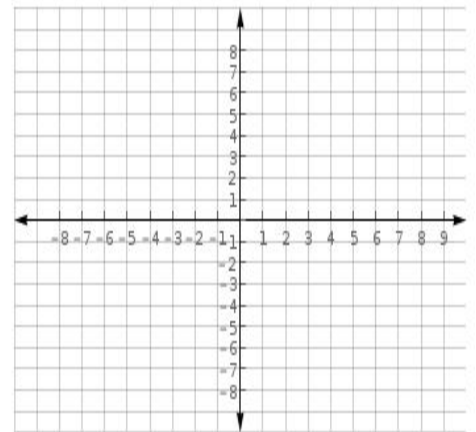
Khan Activity: Coordinate Plane Problems in all 4 Quadrants

Complete this activity on Khan.

Coordinate Plane: Reflecting Points

First attempt this problem on your own. Then watch the video and copy his notes.

- The point $(-8,5)$ is reflected across the y -axis.
- Plot $(-8,5)$ and its reflection across the y -axis.



Khan Activity: Reflecting Points on the Coordinate Plane

Complete this activity on Khan.

Exit Ticket

1. Have all your notes filled out above.
2. Complete the following Khan Academy Activities:
 - a. Graphing Points and Naming Quadrants
 - b. Points on the Coordinate Plane
 - c. Coordinate Plane Problems in all 4 Quadrants
 - d. Reflecting Points on the Coordinate Plane