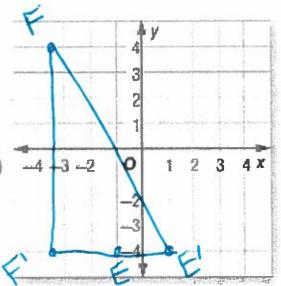
## Vocabulary

Steps:

- 1. Start at the origin.
- 2. The x-coordinate is the first coordinate (go right or left).
- The y-coordinate is the second coordinate (go up or down).

## Reflections

- Use the notation A' to label the reflection of a point A.
- You can graph points that are reflected across the x- and y-axes.
- Points reflected across the x-axis will have the same x-coordinates and their ycoordinates will be opposites.
- Points reflected across the y-axis will have the same y-coordinates and their xcoordinated will be opposites.



## Guided Practice

Use a coordinate plane to represent Jasmine's stone garden. Graph points E (-1,4) and F (-3 1/2, 4). Then, reflect point E across the y-axis and point F across the x-axis. What is the shape of her stone garden?

triangle

What is the distance between Point E and Point F'?

25 units

## Partner Talk

What are the coordinates of Y' after Y (-3.5, 5) is reflected across the x-axis?

(-3.5, -5)

Building on the Essential Question - How can the coordinate plane be used to represent geometric figures?

points, they can create shapes.

Rate yourself

How confident are you about graphing on the coordinate plane? Check the box that applies.



Rate Yourself!