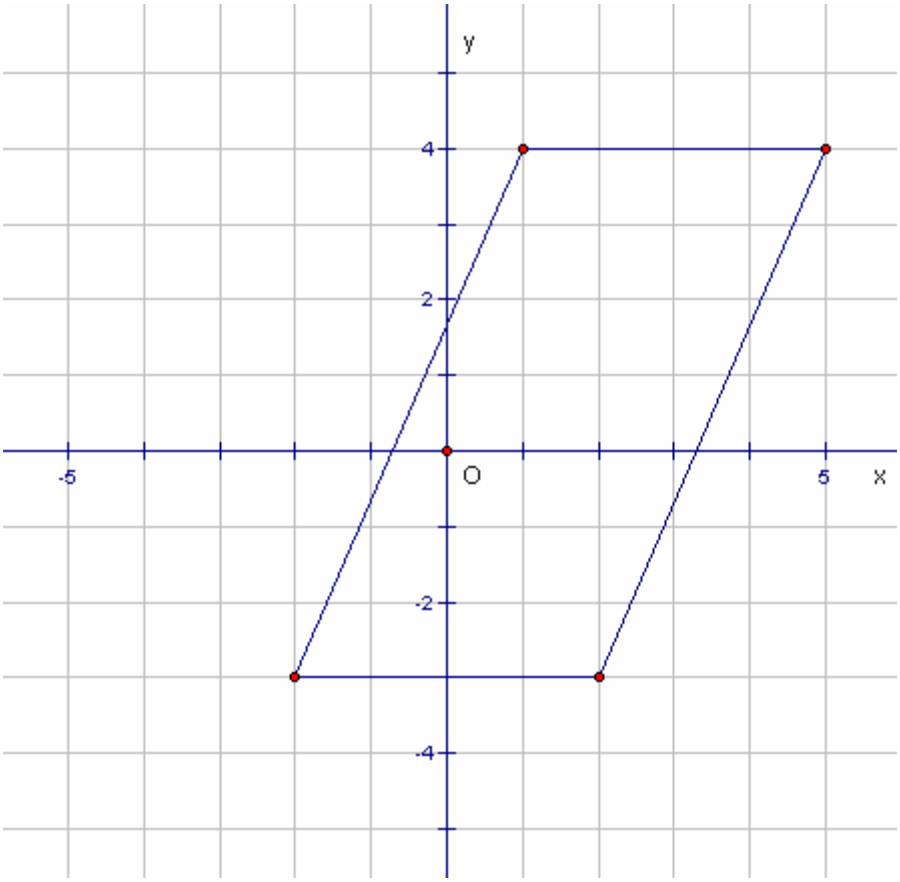
5.3 Key Concepts 1 Plotting Points in the Cartesian Plane Worked Example

Example: Plot the points $(1, 4)$, $(5, 4)$, $(2, -3)$, and $(-2, -3)$. As you plot each point, connect it to the previous point with a line segment. What shape results?

Solution: The plotted points and line segments appear as shown. This is a parallelogram.



Practice:

1. Plot the points $(-3, -1)$, $(-3, 3)$, $(1, 3)$, and $(1, -1)$. As you plot each point, connect it to the previous point with a line segment. What shape results?

2. Plot the points $(-1, -2)$, $(-3, 3)$, $(-1, 5)$, and $(1, 3)$. As you plot each point, connect it to the previous point with a line segment. What shape results?

Answers: 1. a square. 2. a kite.