

Lesson 7-8

Reinforce Understanding

Ordered Pairs in All Four Quadrants

I can plot ordered pairs in all four quadrants of the coordinate plane.

Worked model

I will plot $(-3, -4)$. I start at the origin $(0, 0)$.

1. The x is -3 , which is negative, so I move 3 units to the LEFT.
2. The y is -4 , which is negative, so I move 4 units DOWN. I place my dot.
3. Both coordinates are negative, so the point is in Quadrant III.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Match each ordered pair to its quadrant.

Write the letter of the matching item on each line.

1. _____ $(3, 4)$
2. _____ $(-2, 5)$
3. _____ $(-6, -1)$
4. _____ $(1, -3)$
5. _____ $(-4, 2)$
6. _____ $(5, -6)$

- A Quadrant I
- B Quadrant II
- C Quadrant III
- D Quadrant IV
- E Quadrant II
- F Quadrant IV

2. Sort these points by their quadrant: I first, then II, III, IV.

Write the name of the correct group on each line.

Groups:

- _____ $(-3, -2)$
- _____ $(5, 1)$
- _____ $(-1, 4)$
- _____ $(2, -6)$
- _____ $(4, 3)$
- _____ $(-5, -7)$