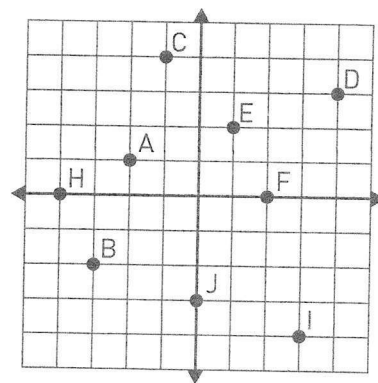# WORKSHEET 4.4: GRAPHING ORDERED PAIRS ON THE COORDINATE PLANE

Graphing points (called "ordered pairs") requires moving horizontally (across) or vertically (up or down) on the coordinate plane, depending on the values of x and y. To graph (x, y), follow the steps below:

1. Start at the origin $(0, 0)$.

2. Consider the x-coordinate.

    - If it is 0, remain at the origin.

    - If it is positive, move to the right along the x-axis. Stop at the x-coordinate.

    - If it is negative, move to the left along the x-axis. Stop at the x-coordinate.

3. Consider the y-coordinate.

    - If it is 0, graph the point where you stopped after finding the x-coordinate.

    - If it is positive, move up parallel to the y-axis, starting from the x-coordinate. Stop at the y-coordinate. Graph the point.

    - If it is negative, move down parallel to the y-axis, starting from the x-coordinate. Stop at the y-coordinate. Graph the point.

DIRECTIONS: State the letter that is near each ordered pair.

1. $(1, 2)$ 2. $(-3, -2)$ 3. $(0, -3)$

4. $(-2, 1)$ 5. $(2, 0)$ 6. $(3, -4)$

7. $(-4, 0)$ 8. $(-1, 4)$ 9. $(4, 3)$

CHALLENGE: Is (x, y) ever the same as (y, x)? Explain your answer.

Name **Answer Key**   Date _____

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DIRECTIONS: State the letter that is near each ordered pair.

1. $(1, 2)$ **E**   2. $(-3, -2)$ **B**   3. $(0, -3)$ **J**

4. $(-2, 1)$ **A**   5. $(2, 0)$ **F**   6. $(3, -4)$ **I**

7. $(-4, 0)$ **H**   8. $(-1, 4)$ **C**   9. $(4, 3)$ **D**
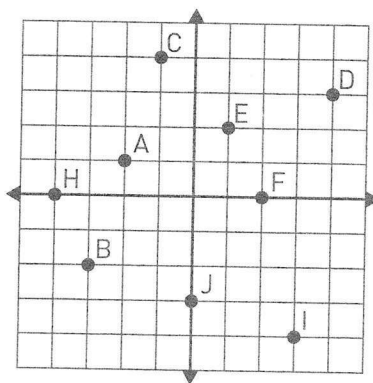
CHALLENGE: Is (x, y) ever the same as (y, x)? Explain your answer.

Yes, but <u>only</u> if the x-coordinate is the same as the y-coordinate.