**DIRECTIONS:** In your groups, choose a partner, and fully complete each of the following steps. Answer each of the questions fully and make sure you use a **different color pencil** to plot and label coordinate points.

|  |  |
| --- | --- |
| **Step 1** | **Step 2** |
| **CHOOSE**  **ANY** two (2) coordinate points. Plot them and label them properly.  **LABEL** the points A and B  **STATE**  the coordinates of each point  **A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ B:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **MOVE** point B  anywhere on the coordinate plane .  **LABEL** the new point C.  **1) How many steps did you move in the x direction?**  **2) Was this positive or negative movement?**  **3) How many steps did you move in the y direction?**  **4) Was this positive or negative movement?**  **5) Represent this movement as** |
| Step 3 | Step 4 |
| **CONNECT** point B and point C.  What type of angle has been formed? *Explain your answer.* | **CREATE** another pair of points and label them D and E.  **MOVE** point E to create an angle of a different type than the previous one.  **STATE** the steps you moved in the x and y direction.  **REPRESENT** them as |

**SUMMARY: *If you are given point P(1, 5) and you move it . You obtain as a final answer (4, 4). Are you correct? Explain your answer.***

**IN YOUR GROUPS**

**DIRECTIONS:** Follow the instructions using the given coordinate plane and then answer the questions

1. Label the point A and state its coordinates
2. **REFLECT** this point over the x axis. Explain how you reflect a point
3. Label this new point B and state its coordinates
4. **CONNECT** points A and B
5. Name the figure now shown on the graph

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1. Write a definition of the figure shown on the graph

**ON YOUR OWN**

1. What is the difference between a line and a line segment?
2. How many points does a line have?
3. How many points does a line segment have?
4. Name two more points on the figure in the graph \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Move point B (x+4, y+6)
6. Label your new point C and connect points B and C
7. Name and define the figure now shown on the graph

***Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Definition:***