**GUIDED NOTES**

**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. In your groups, write a definition of the figure shown on the graph. Make sure it is clear

**Think-Pair-Share**:

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. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**On your own:**

1. Using a different color pencil, **MOVE** point B (x+4, y+6)
2. Label your new point C and connect points B and C
3. Name and define the figure now shown on the graph. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DIRECTIONS:** Use an outside resource (Google search, yahoo search, etc.) to fill in the remaining columns. **BE SURE ALL DEFINITIONS ARE WRITTEN IN YOUR OWN WORDS!!!**

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| --- | --- | --- | --- |
| **TERM** | **DEFINITION** | **DIAGRAM** | **NOTATION**  **(SYMBOL)** |
| Point |  |  |  |
| Line |  |  |  |
| Collinear Points |  |  |  |
| Plane |  |  |  |
| Coplanar points |  |  |  |
| Ray |  |  |  |
| Line Segment |  |  |  |
| Line Segment Length |  |  |  |
| Opposite Rays |  |  |  |
| Angle |  |  |  |
| Angle Measure |  |  |  |