**Reflections on the Coordinate Plane Notes** Name\_\_\_\_\_\_\_\_\_\_\_\_

**Reflection**: a “flipping” of an object over a line (known as the line of reflection). Since the new image and the original image are congruent, it is considered a **rigid transformation**.

**Examples:**

|  |  |
| --- | --- |
| **1) Over which axis has the object been reflected?**  A(-5, 6)  B(-5, 1)  C(-3, 1)  **How do the new ordered pairs relate to the original ordered pairs?** | **2) Over which axis has the object been reflected?**  A(-5, 6)  B(-5, 1)  C(-3, 1)  **How do the new ordered pairs relate to the original ordered pairs?** |
| **3) Reflect the given object over the x-axis.**  **How do the new ordered pairs relate to the original ordered pairs?** | **4) Reflect the given object over the y-axis.**  **How do the new ordered pairs relate to the original ordered pairs?** |

**Pause the video and try the ones on the back on your own!**

**Then press play and check your answers with a color pen.**

|  |  |
| --- | --- |
| **1) Over which axis has the object been reflected?**  **How do the new ordered pairs relate to the original ordered pairs?** | **2) Over which axis has the object been reflected?**  **How do the new ordered pairs relate to the original ordered pairs?** |
| **3) Reflect the given object over the x-axis.**  **How do the new ordered pairs relate to the original ordered pairs?** | **4) Reflect the given object over the y-axis.**  **How do the new ordered pairs relate to the original ordered pairs?** |