**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?** |

![C:\Documents and Settings\jainslie\Local Settings\Temporary Internet Files\Content.IE5\6W2FJPU3\MC900432687[1].png]()**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?** |