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

**Rotation**: a transformation performed by “spinning” the figure around a fixed point (known as the center of rotation). Since the new image and the original image are congruent, it is considered a **rigid transformation**.

**Examples:**

|  |  |
| --- | --- |
| **1) How has the object been rotated around the origin?**A(2, 6)B(2, 2)C(5, 2)**How do the new ordered pairs relate to the original ordered pairs?** | **2) How has the object been rotated around the origin?**A(2, 6)B(2, 2)C(5, 2)**How do the new ordered pairs relate to the original ordered pairs?** |
| **3) How has the object been rotated around the origin?**A(2, 6)B(2, 2)C(5, 2)**How do the new ordered pairs relate to the original ordered pairs?** | **4) Rotate the object 90o counterclockwise around the origin. What are the new coordinates?** |

![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) How has the object been rotated around the origin?****How do the new ordered pairs relate to the original ordered pairs?** | **2) Rotate the object 90o counterclockwise around the origin. What are the new coordinates?** |
| **3) Rotate the object 180o counterclockwise around the origin. What are the new coordinates?** | **4) Rotate the object 90o clockwise around the origin. What are the new coordinates?** |