Rotating a Shape about a Vertex

**Geometry**

**Unit 1 Line Master 6a**

Record the coordinates for two vertices of each shape
and their images in the table below.

1. Draw Shape 1 using a maximum of 6 points.

2. Choose a vertex.
Rotate Shape 1 90° clockwise about the vertex.
Label the rotation image as Shape 2.

3. Repeat Step 2 for a rotation of 180° about the same vertex.
Label the rotation image of Shape 1 as Shape 3.

4. Repeat Step 3 for a rotation of 270° clockwise about
the same vertex.
Label the rotation image of Shape 1 as Shape 4.

5. Describe how each image is related to the original shape.



 Rotating a Shape about a Vertex (cont’d)

**Geometry**

**Unit 1 Line Master 6b**

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| **Rotation Image Shape 2** |
| **Description** | **Coordinates of Vertices of Shape 1** | **Coordinates of Vertices of Image Shape 2** |
|  |  |  |
| **Rotation Image Shape 3** |
| **Description** | **Coordinates of Vertices of Shape 1** | **Coordinates of Vertices of Image Shape 3** |
|  |  |  |
| **Rotation Image Shape 4** |
| **Description** | **Coordinates of Vertices of Shape 1** | **Coordinates of Vertices of Image Shape 4** |
|  |  |  |