**BLM 7.SS.5.6: Creating a Design Using Reflections**

**Instructions**

1. Plot the points listed in the following table on a Cartesian plane.
2. Use a ruler to draw a line that connects the points in alphabetical order.
3. Use a ruler to draw a line to connect each point to the origin.
4. Reflect the shape on the *y*-axis to create an image, and label and record the points and coordinates.
5. Reflect this image on the *x*-axis to create a second image, and record the coordinates.
6. Describe the changes between the initial shape and the images.

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| **Shape Points** | **Shape Coordinates** | **Image 1 Points** | **Image 1 Coordinates** | **Image 2 Points** | **Image 2 Coordinates** |
| A | (7, 0) |  |  |  |  |
| B | (4, 2) |  |  |  |  |
| C | (4, 4) |  |  |  |  |
| D | (2, 4) |  |  |  |  |
| E | (0, 7) |  |  |  |  |
| Describe the changes between the initial shape and the images. | | | | | |

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