Do Now: Dilation

**1. Make both a table and a labeled graph**

The image of the vertex after a dilation centered on the origin is . What is the *scale factor* of the dilation, *f*?

Map the polygon with the same dilation using a geometric method: divide a line segment from each vertex through the origin.



**Homework**

1. Triangle *ABC* has the vertices *A*(4,2), *B*(0,0), and *C*(1,3). Find the coordinates of , the image of under the composite transformation . Graph and label all three triangles.

Which of the two separate transformations is an isometry?

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**2.



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