Do Now: Dilation

**1. Make 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*?

Apply the same transformation to the figure shown.



**Homework**

1. Triangle *ABC* has the vertices *A*(3,2), *B*(1,0), and *C*(1,4). 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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