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*?

A second dilation maps to .

Apply the same transformations to the entire figure shown.



**Homework**

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

Is orientation preserved?

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2.

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