Do Now: Dilation

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

The image of after a dilation is . What are the images of under the same dilation? Write down the coordinates after the transformation and plot and label all six points on the grid. Assume that the center of dilation is the origin.

What is the *scale factor* of the dilation, *f*?



**Homework**

1. Triangle *ABC* has the vertices *A*(6,4), *B*(8,2), and *C*(4,6). Find the coordinates of , the image of under the transformation . Graph and label the three triangles.

What is the relationship of the areas of the triangles? Justify your answer.

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2.



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