**Geometry – Discovery Activity Name:**

**Unit 4- Transformations Period: 2 4 7 Date: 1/16/18**

1. Trace the arrow and the axis onto your patty paper.
2. Make a conjecture. Where do you think the arrow will end up if

you rotate the image 90° about the origin?

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1. Test your conjecture by rotating the image around the origin.
2. Make a conjecture. Where do you think the arrow will end up if

you rotate the image 180° about the origin?

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1. Test your conjecture by rotating the image around the origin.
2. Make a conjecture. Where do you think the arrow will end up if

you rotate the image 270° about the origin?

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1. Reflect the following triangle across the line to create Then, reflect over the line .
2. Write a rule for the Reflections described above.
3. Look at the transformation from to . What type of transformation does it look like?

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| ***Generalization:*** |

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