**Geometry – Homework Name:**

**Unit 4- Transformations Period: 2 4 7 Date: 1/12/18**



***Fill in the missing notation for each coordinate change based on the transformations described and graphed:***

$DEFG$ to $D^{'}E^{'}F^{'}G^{'}: \left(x,y\right)\rightarrow \left( , \right)$

$D'E'F'G$’ to $D^{''}E^{''}F^{''}G^{''}: \left( , \right)\rightarrow \left( , \right)$

$DEFG$ to $D^{''}E^{''}F^{''}G^{''}: \left(x,y\right)\rightarrow \left( , \right)$







**Fill in the missing notation for each coordinate change based on the transformations described and graphed:**

$$RST to R'S'T' \left(x,y\right)\rightarrow \left( , \right)$$

$$R'S'T' to R''S''T'' : \left( , \right)\rightarrow \left( , \right)$$

$$RST to R^{''}S^{''}T^{''}: \left(x,y\right)\rightarrow \left( , \right)$$

**Geometry – Discovery Activity Name:**

**Unit 4- Transformations Period: 2 4 7 Date: 1/12/18**

1. Reflect the following triangle across the line $y=-1$ to create $T\_{2}.$ Then, reflect $T\_{2}$ over the line $y=2$.
2. Write a rule for the Reflections described above.
3. Look at the transformation from $T\_{1}$ to $T\_{3}$. Write the transformation by writing the rule using a translation.
4. Reflect the following triangle across the $y-axis$ to create $T\_{2}.$ Then, reflect $T\_{2}$ over the line $x=-2$.
5. Write a rule for the Reflections described above.
6. Look at the transformation from $T\_{1}$ to $T\_{3}$. Write the transformation by writing the rule using a translation.

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| ***Generalization:***  |