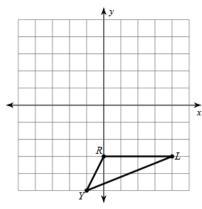
igstaclesigned Directions: Study the following vocabulary words: ★

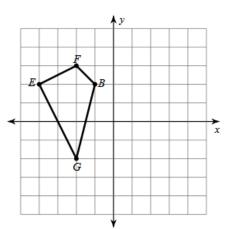
Angle, Circle, Dilation, Line, Line segment, Parallel Lines, Perpendicular Lines, Point, Ray, Reflection, Rigid Motion, Rotation, Transformation, Translation

Directions: Graph the following transformations or write out the new coordinates, then write the generic coordinate.

1. Rotate 90° CCW about the origin, then translate down 3. 2. Reflect over the x-axis, then rotate 180° about the origin.

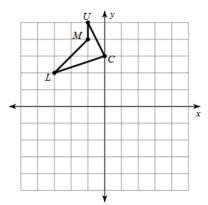


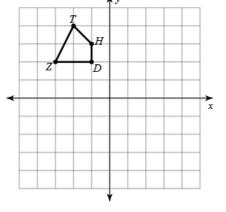
3. Translate right 2, then rotate 270° CW about the origin.



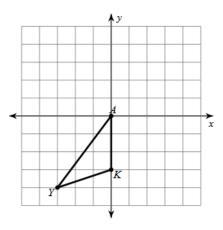
Directions: Graph the following transformations.

5. Reflection over x = 1

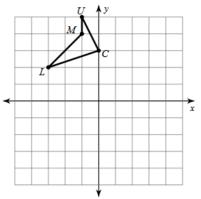




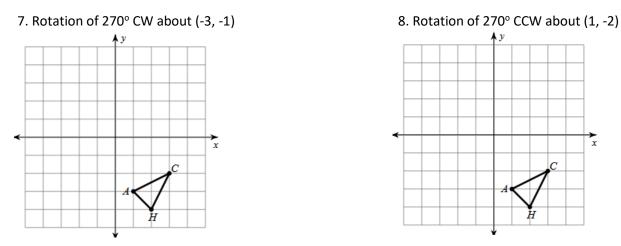
4. Translate left 2, then reflect over y= -x.



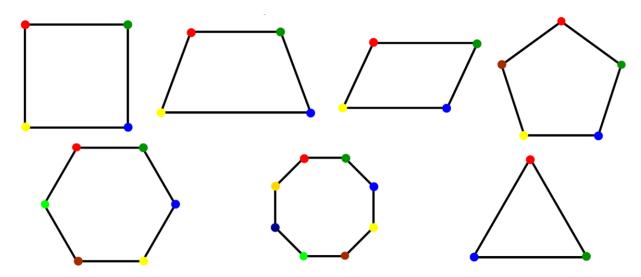
6. Reflection over y = 3.



Directions: Graph the following transformations.



9. Identify how many lines of symmetry the following figures has and draw them. Assume that it is a regular polygon if possible.



10. Identify all of the degrees of rotation between 0° and 360° about the center that would map each polygon onto itself. Assume that it is a regular polygon if possible.

