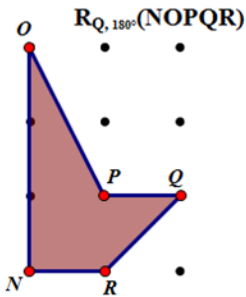
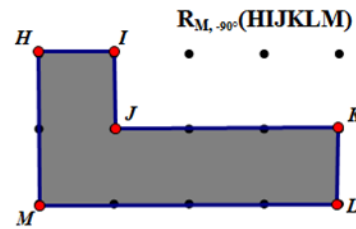
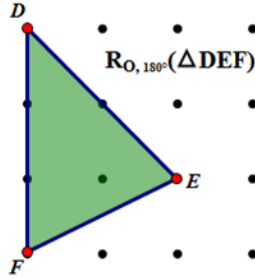
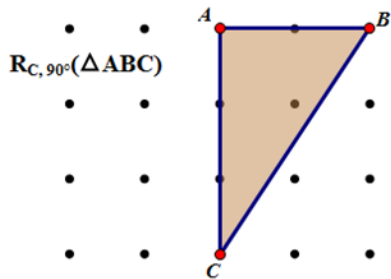
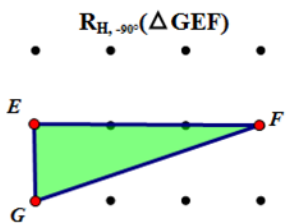
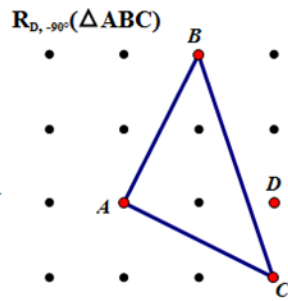
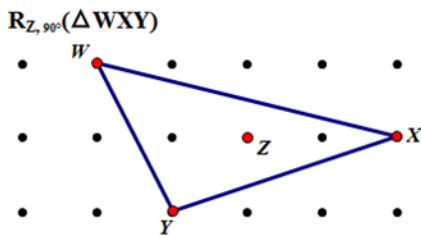
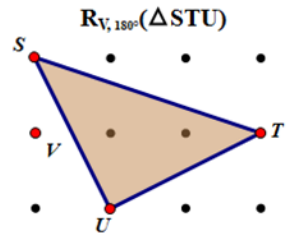


Quick Concept: Patty paper (transparent) makes rotations much easier to do. Also, you need to know that a positive rotation is Counter Clockwise (CCW) and a negative rotation is Clockwise (CW).

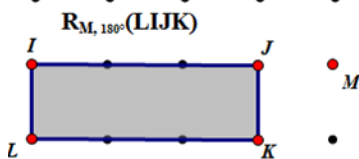
1) Use the grid or patty paper to rotate the following figures. Label the image.



O



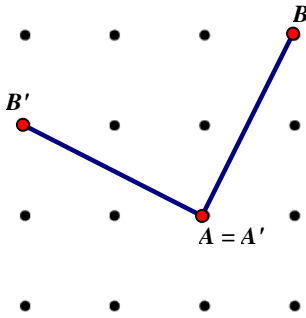
H



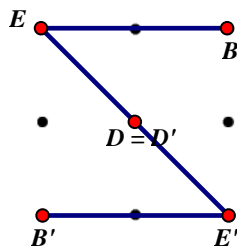


2) Circle the center of rotation for the following pre-image and images.

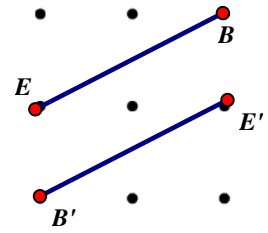
a) A rotation of 90°



b) A rotation of 180°



c) A rotation of 180°



3) Determine the pre-image coordinates, then rotate it, and determine the image coordinates. Patty paper will help determine the image coordinates. (Patty paper might be helpful here.)

$$R_{G,90^\circ}(\triangle ABC)$$

a) $A = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle ABC)$

$A' = (\underline{\quad}, \underline{\quad})$

b) $B = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle ABC)$

$B' = (\underline{\quad}, \underline{\quad})$

c) $C = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle ABC)$

$C' = (\underline{\quad}, \underline{\quad})$

$$R_{O,90^\circ}(\triangle DFE)$$

d) $D = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle DFE)$

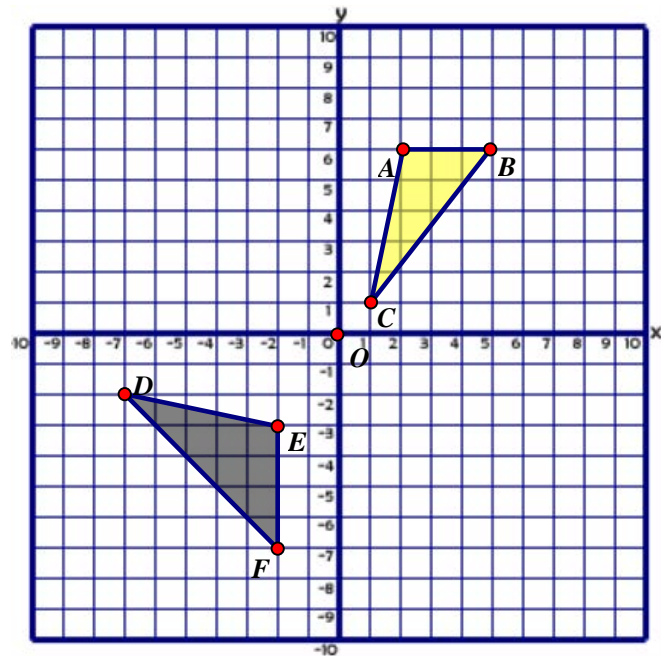
$D' = (\underline{\quad}, \underline{\quad})$

e) $E = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle DFE)$

$E' = (\underline{\quad}, \underline{\quad})$

f) $F = (\underline{\quad}, \underline{\quad}) \quad R_{O,90^\circ}(\triangle DFE)$

$F' = (\underline{\quad}, \underline{\quad})$



4) Determine the name of the point that meets the given conditions.

a) $R_{G,60^\circ}(A) = \underline{\hspace{2cm}}$

b) $R_{G,180^\circ}(B) = \underline{\hspace{2cm}}$

c) $R_{G,300^\circ}(D) = \underline{\hspace{2cm}}$

d) $R_{G,-120^\circ}(\underline{\hspace{1cm}}) = B$

e) $R_{G,240^\circ}(E) = \underline{\hspace{2cm}}$

f) $R_{G,-240^\circ}(F) = \underline{\hspace{2cm}}$

g) $R_{G,-60^\circ}(B) = \underline{\hspace{2cm}}$

h) $R_{G,300^\circ}(B) = \underline{\hspace{2cm}}$

