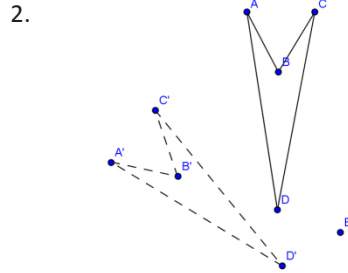
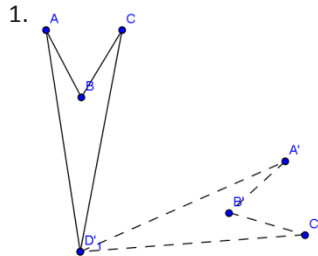


Name: _____

Date: _____ Period: _____

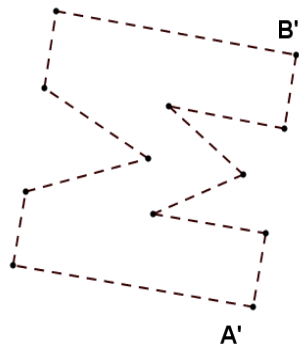
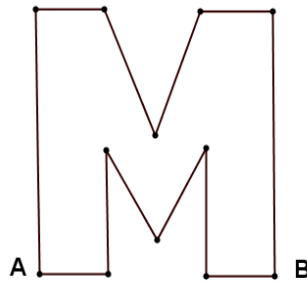
Finding the degree of rotation:

To determine the angle of rotation, you measure the angle formed by connecting corresponding vertices to the center point of rotation. In Exercise 1, measure $\angle AD'A'$. What happened to $\angle D$? Can you see that D is the center of rotation, therefore mapping D' onto itself? Before leaving Exercise 1, try drawing $\angle BD'B'$. Do you get the same angle measure? What about $\angle CD'C'$?

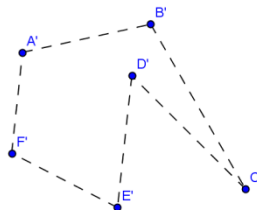
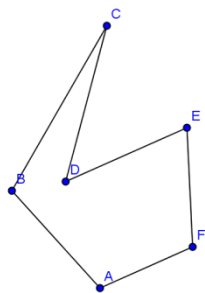


Finding the center of rotation:

- Draw a segment connecting points A and A' .
- Using a compass and straightedge, find the perpendicular bisector of this segment.
- Draw a segment connecting points B and B' .
- Find the perpendicular bisector of this segment.
- The point of intersection of the two perpendicular bisectors is the center of rotation. Label this point P .



4. Find the center of rotation.



5. Find the center of rotation.

