10A Meet in the "Middle"

Name: Per:

SHOW YOUR WORK AND WORK IN PENCIL

- **OBJECTIVE:** Find lines and symmetry and construct perpendicular bisectors Due Date: March 12th / March 13th
 - 1. Draw all possible lines of symmetry for the following letters (if none, state so).



2. Draw all possible lines of symmetry for the following. The angle of rotation is the number of degrees to rotate a figure onto itself. List the angle of rotation for the figures below.



3. For each of the regular (equal sides) polygons below (1) name the polygon, (2) draw all lines of symmetry, (3) draw the diagonals-in a different color (Diagonals joint two non-consecutive vertices) and (4) State the angle of rotation between 0-359° (what degrees for the image to rotate onto itself)

Name: # of Lines of Symmetry: # of Diagonals: Angle of Rotation:	Name:
Name:	Name:

4. Finding equations (**Parallel or Perpendicular**) to the given information through the given point.

	PARALLEL	PERPENDICULAR
a. Table of the line:	Parallel line through the point (3, 8)	Perpendicular line through the point (4, 8)
$ \begin{array}{c cc} x & y \\ \hline 3 & -8 \\ \hline 12 & -26 \\ \end{array} $		
h Equation:	Parallel line through the point $(-1, -7)$	Perpendicular line through the point $(-2, 10)$
4y + 8 = 16x		

5. Define **bisector**

CONSTRUCT a perpendicular bisector for each of the lines below. 6.

А _____ В



В

