

Name: _____
Date: _____
Class: _____

Geometry
Unit 6
HW 6-1

- 1) What is the difference between a regular polygon and a polygon?
- 2) What is the sum of the interior angles of an octagon?
- 3) How many degrees are in each interior angle of a regular 22 sided figure?
- 4) If each interior angle of a regular polygon is 157.5° how many sides does it have?
- 5) In a regular hexagon 2 sides are represented by $2x + 12$ and $3x + 7$. What is its perimeter?
- 7) How many degrees are in the sum of the exterior angles of a pentagon?
- 8) If each exterior angle of a regular polygon are 24° how many sides does it have?
- 9) If a heptagon is regular how many degrees are in each exterior angle?
- 10) If each exterior angle of a regular polygon is 20° and 2 sides are represented by $3x + 1$ and $4x - 2$ what is its perimeter?
- 11) If an isosceles triangle with a vertex angle of 30 degrees is rotated 30 degrees centered at the point of the vertex angle over and over until it returns to its original position what type of polygon is created?
- 12) List all the number of degrees of rotational symmetry a regular octagon has between zero and 360 degrees.