**Geometry Chapter 6 Study Guide**

**1.** How many sides in each of the following polygons?

 Pentagon –

 Hexagon –

 Octagon –

 Nonagon –

 Decagon –

**2.** How do you find the sum of the measures of the interior angles of a polygon? How do you find **one interior angle** in a regular polygon? What do we know about the sum of the exterior angles of a polygon? How do you find the measure of **one exterior angle** of a regular polygon?

**3.** What is true about opposite angles in any parallelogram?

**4.** What is true about opposite sides in any parallelogram?

**5.** What is true about diagonals in any parallelogram?

**6.** What is true about transversals that cross three or more parallel lines? Draw an example.

**7.** What is true about the diagonals in any rhombus? (Hint: there are two truths)

**8.** What is true about the diagonals in any rectangle?

**9.** What is true about the angles that share a leg in any trapezoid? What is true about the angles that share a base in an isosceles trapezoid? Draw an example.

**10.** What is true about the diagonals in any kite?