Friday, Oct. 11:  5.1 Classifying Triangles

By sides:

Equilateral- all 3 sides are congruent

Isosceles- 2 sides are congruent

Scalene-  0 sides are congruent (all are different)

By angles:

Equiangular- all angles are equal (60 degrees)

Right- one angle is exactly 90 degrees

Obtuse- one angle is greater than 90 degrees

Acute- all angles are less than 90 degrees

(Auxiliary line is a line that is added to a figure to aid in a proof.)

(A corollary is a theorem whose proof follows directly from another theorem.)

**\*\*\*  Triangle angles add to 180 degrees.**

The acute angles of a right triangle are complementary.  (add to 90 degrees)

The measure of each angle of an equiangular triangle is 60 degrees. (180 3 = 60)

adjacent = connected

A remote interior angle is an interior angle that is **not** adjacent to the exterior angle.  Each exterior angle has 2 remote interior angles.

**Exterior Angle Theorem:**

Exterior = 2 remote interior angles added together