Chapter 4: Triangle Relationships

4.1: Classifying Triangles

Objective: Classify triangles by their sides and by their angles.

A <u>triangle</u> is a three sided polygon.

Classification of triangles by sides:

1. Equilateral triangle - 3 congruent sides

2. Isosceles triangle - at least 2 congruent sides

3. Scalene triangle - no congruent sides

Checkpoint at the bottom of page 173.

Classification of triangles by angles:

1. Equiangular triangle - 3 congruent angles

2. Acute triangle - 3 acute angles

3. Right triangle - 1 right angle

4. Obtuse triangle - 1 obtuse angle

Checkpoint at the bottom of page 174.

A <u>vertex</u> of a triangle is a point that joins two sides of the triangle.

The side across from an angle is <u>opposite side</u>.

Example: Name the angle and the opposite side.