Topic: 3.2 Interior and Exterior Angles of Triangles

1. Draw a triangle and label its angles. What do the angles add up to?

2. Can you draw a triangle whose interior angles add up to less or more than this number?

3. How are interior angles related to the sides of a triangle? (Hint: Draw an equilateral triangle and look at the angles)

4. Draw a triangle and label the angles A, B, and C.

   - Find the measures of angles A, B, and C.
   - Extend the line opposite of angle A. Find the supplementary angle and name it D.
   - Find the sum of the 2 triangle angles not supplementary to angle D. Compare this to angle D.
   - What do you notice? Can you test something similar with another triangle?