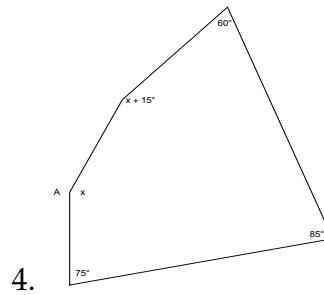
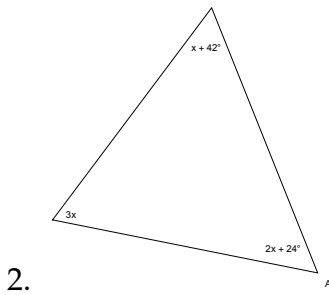
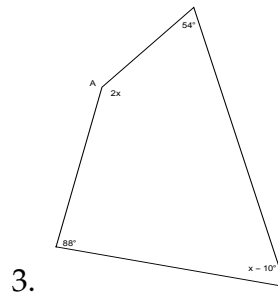
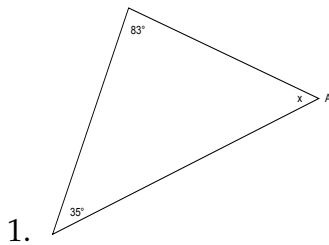


In Problems 1-4, find the measure of the angle marked A in the picture.



5. One angle of a triangle measures 125° . The other two angles differ in measure by 17° . What is the measure of the smallest angle of this triangle?
6. Two angles of a triangle are of equal measure. The third angle is one-third the measure of each of the other two. What are the measures of the angles of this triangle?
7. A quadrilateral has three angles measuring 116° , 79° and 103° . What is the measure of the fourth angle of the quadrilateral?
8. A hexagon has four angles measuring 130° , 115° , 150° and 90° . The other two angles have equal measure. What is the measure of each remaining angle?
9. All the angles of a 15-sided polygon have equal measure. What is the measure of each angle?

Answers (I did these by hand; it is possible that they contain errors)

1. 62°

2. 62° (x is 19°)

3. 152° (x is 76°)

4. 152.5°

5. 19°

6. 77.14° , 77.14° and 25.72° .

7. 62°

8. 117.5°

9. 156°