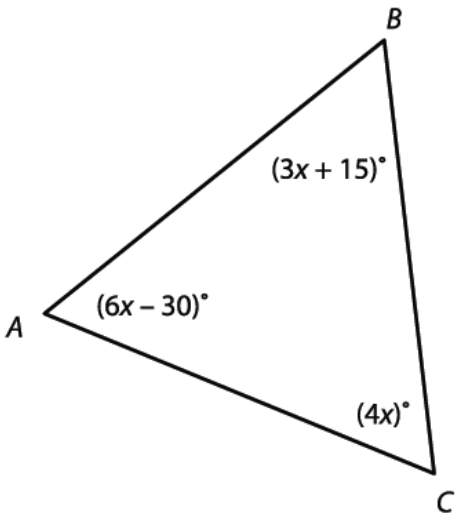
Secondary 2H **Name**_____ **Desk** _____

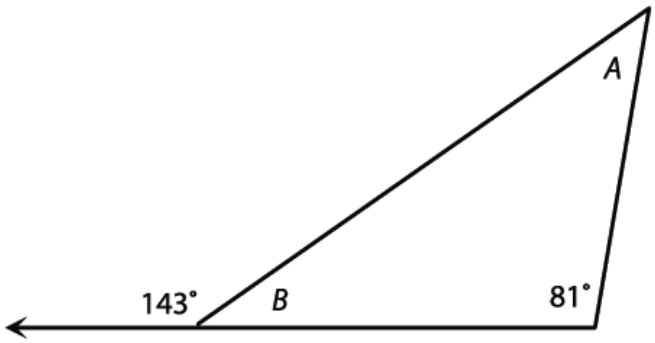
Unit 8 **Theorems About Triangles**

Score _____

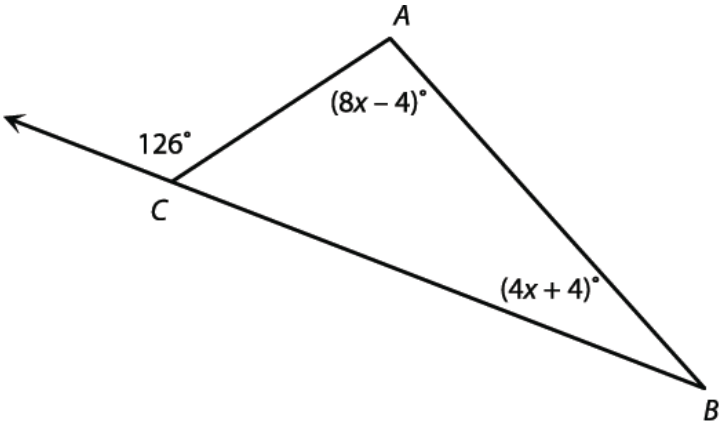
1. Find the measure of ∠C. Justify your work.



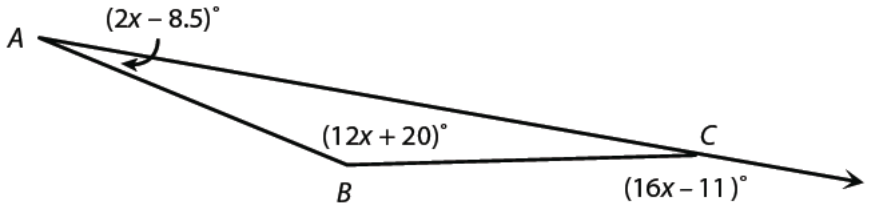
2. Find the measure of ∠A and ∠B. Justify your work.



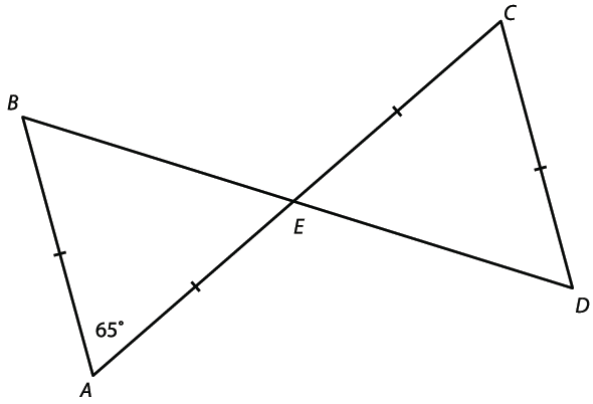
3. Find the measure of ∠CAB and ∠ABC. Justify your work.



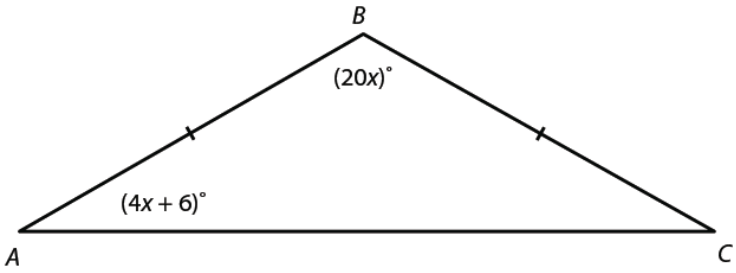
4. Find m∠CAB and m∠ABC. Justify your work.



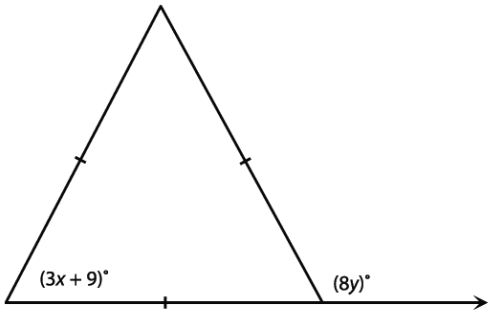
5. Find m∠B, m∠C, and m∠D. Justify your work.



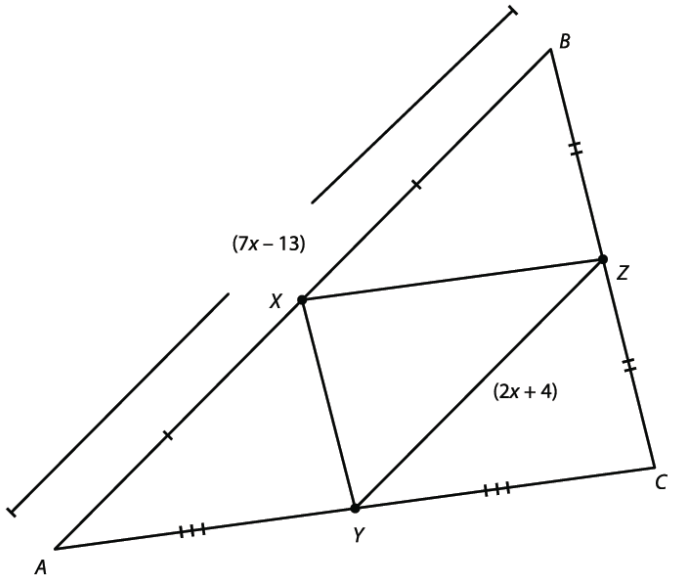
6. Find m∠A, m∠B, and m∠C. Justify your work.



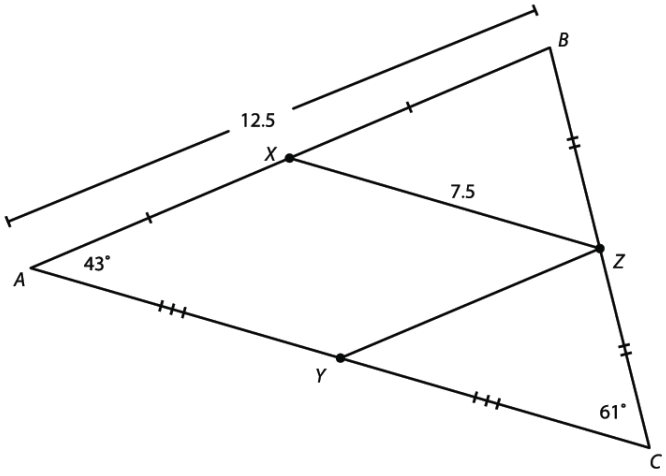
7. Find x and y. Justify your work.



8. What is the length of YZ? Justify your work.



9. Find the measure of AC and YZ and the measure of ∠XZY. Justify your work.



10. Verify that the centroid, (-3, 3), of ΔABC with vertices A $(6, 9)$, B $(0, 0)$ and C $(-15, 0)$ is $\frac{2}{3}$ the distance from each vertex to the midpoint of the opposite side.