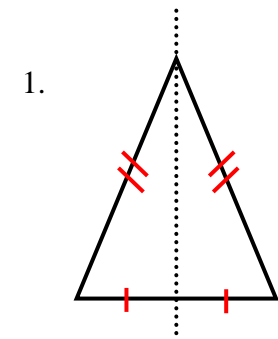
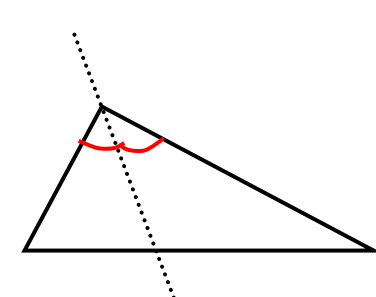


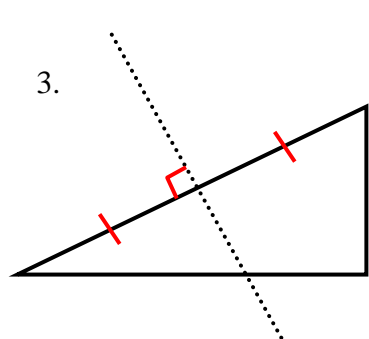
1.7 Special Segments
Pre-AP Geometry

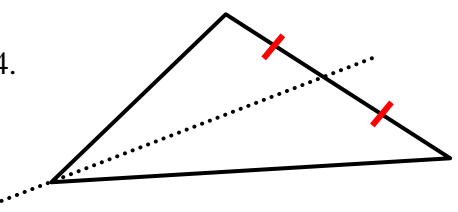
Name _____
 Period _____ Date _____

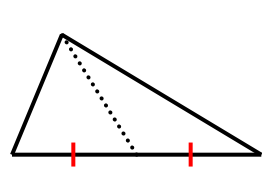
Given the following diagrams and markings, identify each of the following as an angle bisector (AB), a perpendicular bisector (PB), an altitude/height (A), or a median (M). List all that apply.

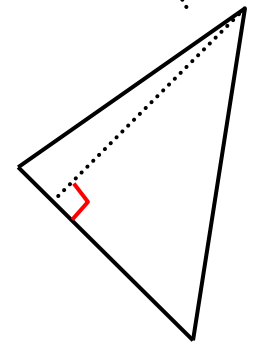
1. _____ 1. 

2. _____ 2. 

3. _____ 3. 

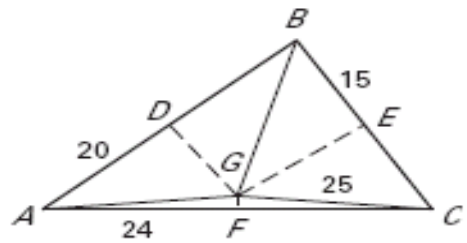
4. _____ 4. 

5. _____ 5. 

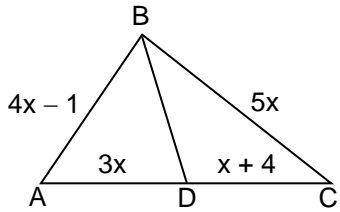
6. _____ 6. 

7. In the diagram, the perpendicular bisectors of $\triangle ABC$ meet at point G and are shown dashed. Find the indicated measure.

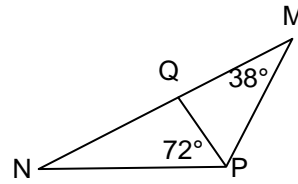
- a) $AG =$ b) $BD =$
 c) $CF =$ d) $BG =$



8. \overline{BD} is a median of $\triangle ABC$
 a. Find the value of x
 b. Find the length of the sides of $\triangle ABC$

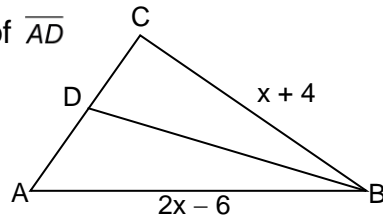


9. \overline{PQ} is an altitude of $\triangle MNP$
 a. Find $m\angle N$ and $m\angle MPQ$

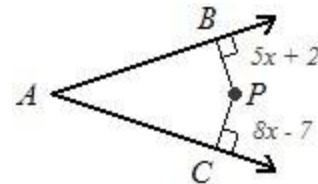


10. $\triangle ABC$ is isosceles with vertex B, \overline{BD} is a median
 and $\overline{CD} = \frac{x}{2}$

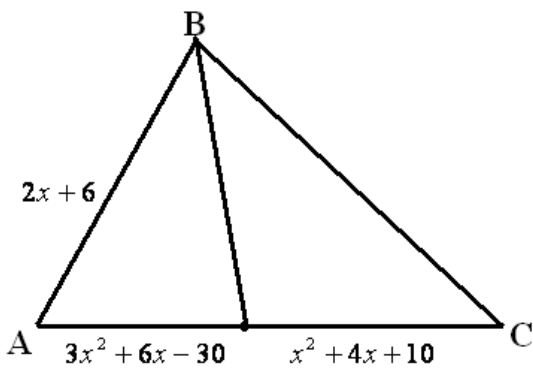
- a. Find the length of \overline{AD}



11. For what value of x does P lie on the bisector of $\angle A$.



12. Find AB if BD is a median of $\triangle ABC$.



13. Find BC if AD is an altitude of $\triangle ABC$.

