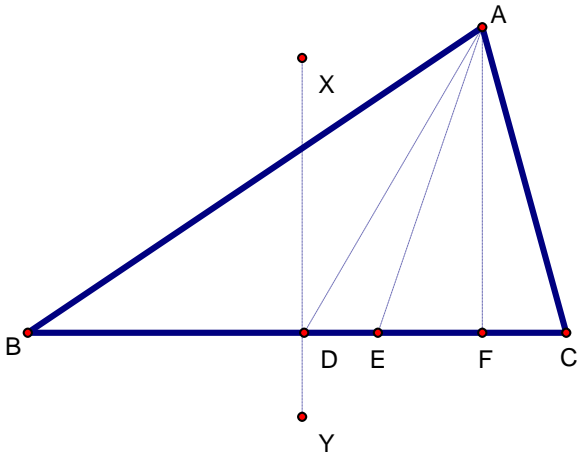


5-3 Median, Bisectors, Altitudes, and Exterior Angles

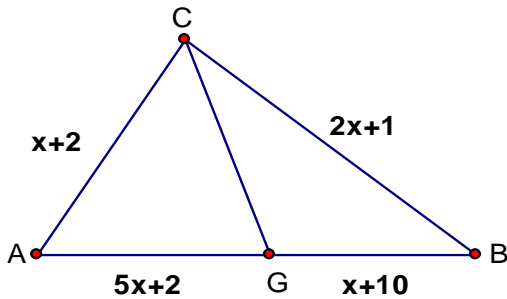
Name _____



In the figure above, $BD = CD$, $\angle XDC = \angle AFC = 90^\circ$, and $\angle BAE = \angle CAE$.

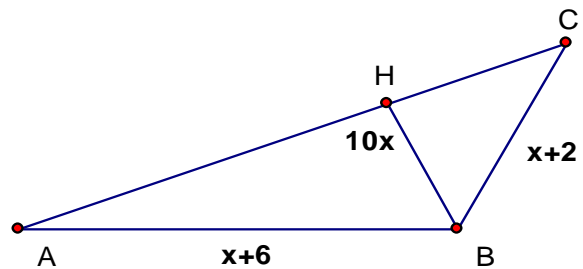
- _____ 1. What line is a median of $\triangle ABC$?
- _____ 2. What line is an angle bisector of $\triangle ABC$?
- _____ 3. What line is a perpendicular bisector of $\triangle ABC$?
- _____ 4. What line is an altitude of $\triangle ABC$?

5. Find BC if \overline{CG} is a median of $\triangle ABC$.



BC = _____

6. Find BC if \overline{BH} is an altitude of $\triangle ABC$.



BC = _____

7. In $\triangle ABC$, $A = (2, 5)$, $B = (10, -1)$, and $C = (6, -2)$.
What are the coordinates of X if \overline{CX} is a median of $\triangle ABC$? _____

8. In $\triangle ABC$, $A = (1, 3)$, $B = (4, -1)$, and $C = (-6, 3)$.
What are the coordinates of X if \overline{CX} is a median of $\triangle ABC$? _____

9. Which angles are less than $\angle 1$ below? _____

10. Which angles are less than $\angle 3$ below? _____

11. Which angles are less than $\angle 5$ below? _____

12. Which angles are less than $\angle 6$ below? _____

