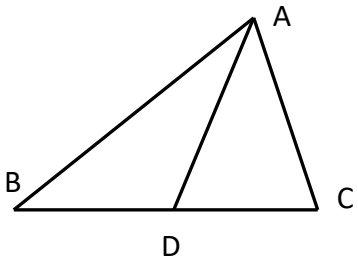
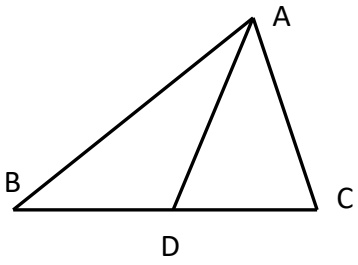
Name _____ Date _____

In each figure, $\overline{AD}$ is a median. Find x.

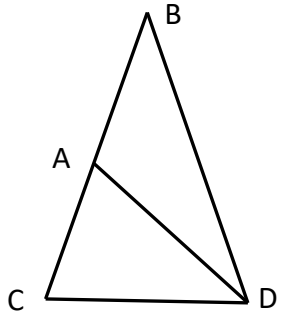
AC = 18
BD = 6x – 2
CD = 2x + 6



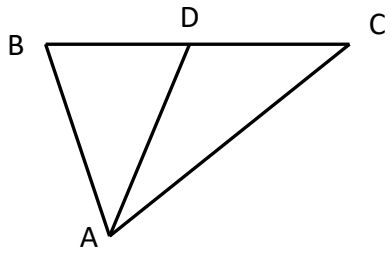
AB =26
BD = 3x – 2
BC = 10x - 12



ΔBCD *is isosceles, with* $\angle B$ *as the vertex angle.*
AC = 5x + 4
BD = 18x - 2
CD = 10x

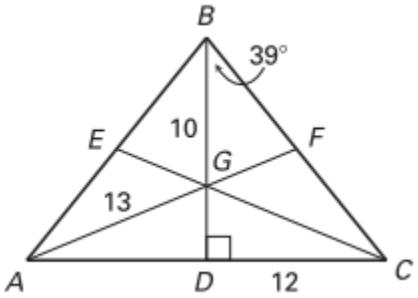


ΔABD *is isosceles, with* $\angle A$ *as the vertex angle.*
AB =16
BD = 5
BC = x



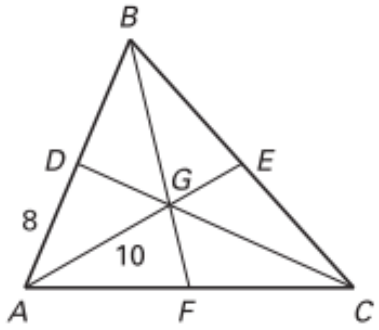
G is the centroid of ΔABC

1. Name a median
2. Name an angle bisector
3. Name a perpendicular bisector
4. AD = 2x – 4. Find x.
5. Find EF
6. Find $m\angle B$AD



G is the centroid of $\triangle ABC$, $AD = 8$, $AG = 10$, and $CD = 18$. Find the length of the segment.

1. $\overline{BD}$
2. $\overline{AB}$
3. $\overline{EG}$
4. $\overline{AE}$
5. $\overline{CG}$
6. $\overline{DG}$



Challenge Questions

BD, AF, and EC are medians with G as the centroid of the triangle. For each question, find x.

18. $CG = 3x + 7$ and $CE = 6x$
19. $FG = x + 8$ and $AF = 9x - 6$
20. $BG = 5x - 1$ and $DG = 4x - 5$