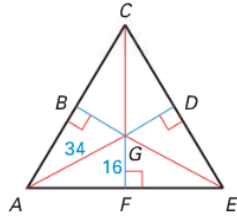
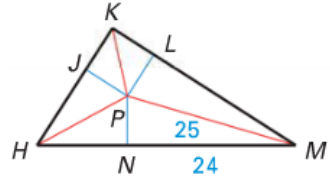


Honors Geometry Triangle Centers Worksheet 1
Incenter (angle bisector) & Centroid (median)

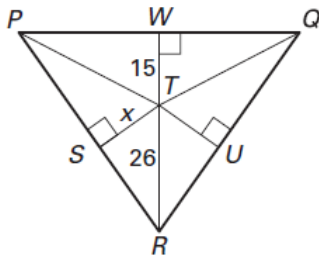
1. Point G is the incenter of $\triangle ACE$. Find BG.



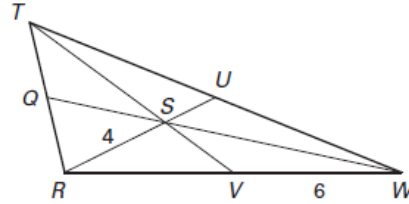
2. Point P is the incenter of $\triangle HKM$. Find JP.



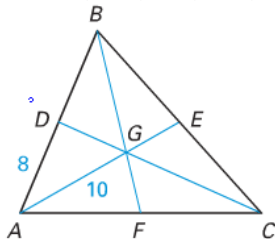
3. Point T is the incenter of $\triangle PQR$. Find x .



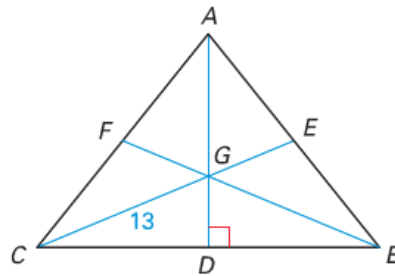
4. Point S is the centroid of $\triangle RTW$, $RS = 4$, $VW = 6$, and $TV = 9$. Find RV, SU, RU, RW, TS, and SV.



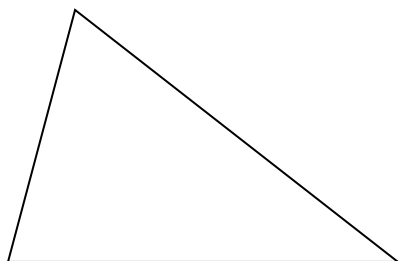
5. The medians of $\triangle ABC$ intersect at point G. $AD = 8$, $AG = 10$, and $CD = 18$. Find BD, AB, EG, AE, DG, and GC.



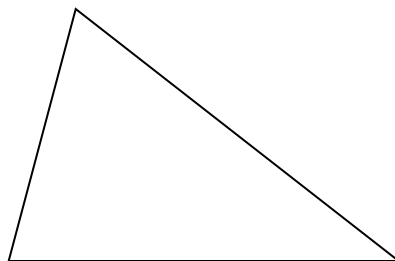
6. Point G is the centroid of $\triangle ABC$, $CG = 13$, $AD = 15$, and $\overline{AD} \perp \overline{CB}$. Find AG, GD, GE, CD, DB, and GB.



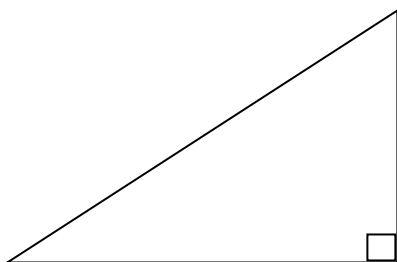
7. Construct the centroid of the triangle below.



8. Construct the incenter and incircle of the triangle below.



9. Construct the incenter and incircle of the triangle below.



10. Construct the centroid of the triangle below.

