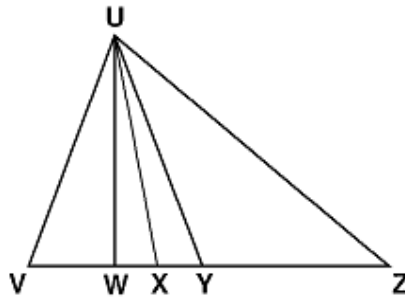


**DO NOW**

In  $\triangle UVZ$  below,  $\overline{UW}$  is an altitude,  $\overline{UX}$  is an angle bisector, and  $\overline{UY}$  is a median.



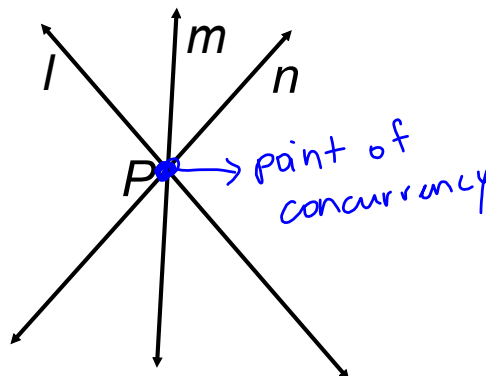
- 1) Name one pair of right angles
- 2) Name one pair of congruent segments
- 3) Name two congruent angles that each have a vertex at  $U$

Oct 1-10:23 AM

Concurrence

Three or more lines are *concurrent* if and only if their intersection is exactly one point

The lines  $l$ ,  $m$ , and  $n$  are concurrent at point  $P$



May 2-10:19 AM

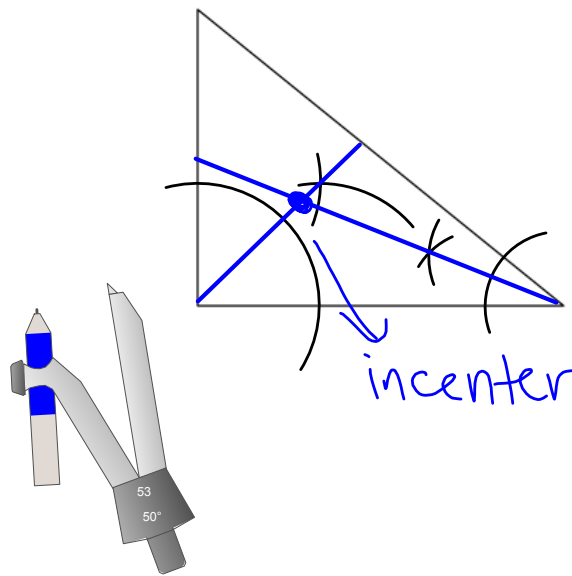
1. Using a compass and straightedge, construct the centroid of this triangle.  
(Intersection point of the medians of a triangle.)

Dec 19-9:29 AM

2. Using a compass and straightedge, construct the orthocenter of this triangle.  
(Intersection point of the altitudes of a triangle.)

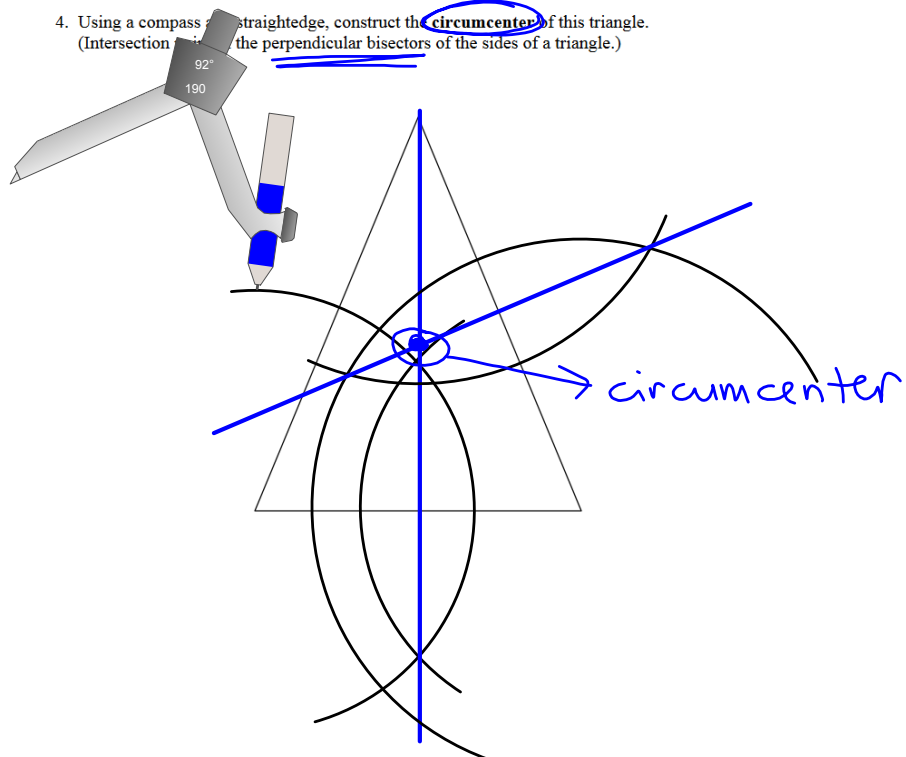
Dec 19-9:31 AM

3. Using a compass and straightedge, construct the incenter of this triangle.  
(Intersection point of the angle bisectors of a triangle.)



Dec 19-9:31 AM

4. Using a compass and straightedge, construct the circumcenter of this triangle.  
(Intersection point of the perpendicular bisectors of the sides of a triangle.)



Dec 19-9:32 AM