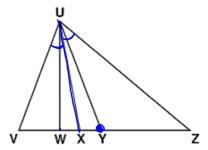
DO NOW

I line

2 = X's

7 to Mid point

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



1) Name one pair of perpendicular line segments

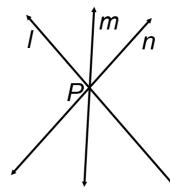
- 2) Name one pair of congruent segments \rightarrow 13 midpoint of $\sqrt{2}$ $\sqrt{1} \approx \sqrt{2}$
- 3) Name two congruent angles that each have a vertex at *U*

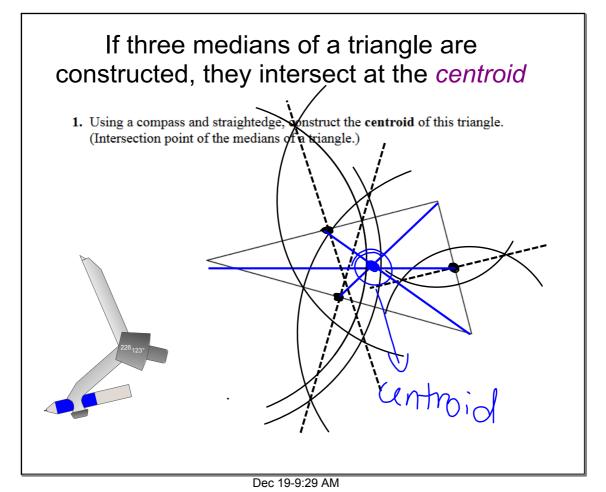
Oct 1-10:23 AM

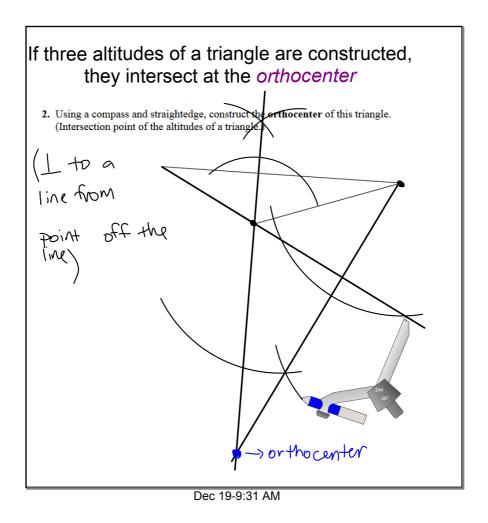
Concurrence

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

The lines *I*, *m*, and *n* are concurrent at point *P*

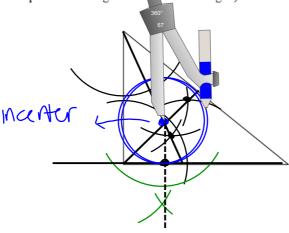






If three angle bisectors of a triangle are constructed, they intersect at the *incenter*

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



The incenter is the center of the inscribed circle within the triangle

Dec 19-9:31 AM