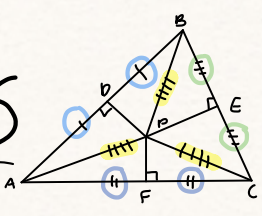
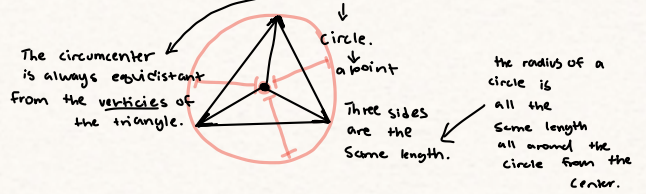


CENTERS OF TRIANGLES

Circumcenter



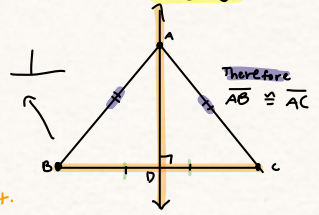
The perpendicular bisector of the sides of a triangle intersect at a point called the circumcenter.
 Latin: around center



don't get back pain :D!

Perpendicular Bisector

If $\overline{AD} \perp \overline{BC}$ and $\overline{BD} \cong \overline{DC}$ THEN $\overline{AB} \cong \overline{AC}$



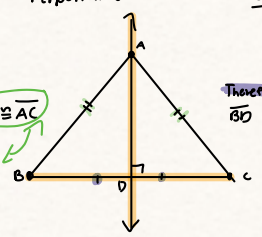
Same for perpendicular bisector & converse for it.

Changes for \triangle THEN for each other.

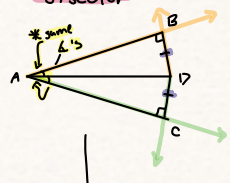
CONVERSES:

Perpendicular bisector CONVERSE

If $\overline{AB} \perp \overline{BC}$, and $\overline{AB} \cong \overline{AC}$ THEN $\overline{BD} \cong \overline{DC}$



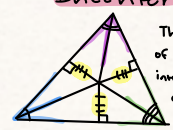
Angle Bisector



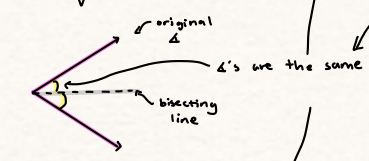
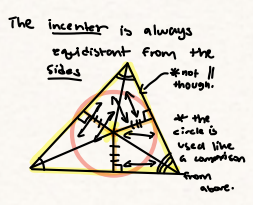
If \overline{AD} bisects $\angle BAC$, $\overline{AB} \perp \overline{BD}$, and $\overline{AC} \perp \overline{DC}$ THEN $\overline{BD} \cong \overline{DC}$

Therefore $\overline{BD} \cong \overline{DC}$

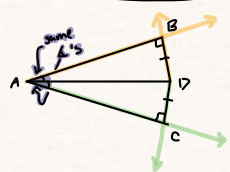
Incenter



The angle bisectors of the \angle 's of a triangle intersect at a point called the incenter.



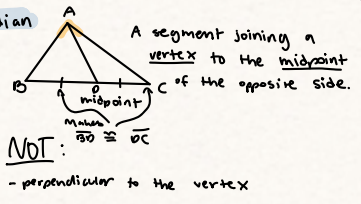
Angle bisector CONVERSE



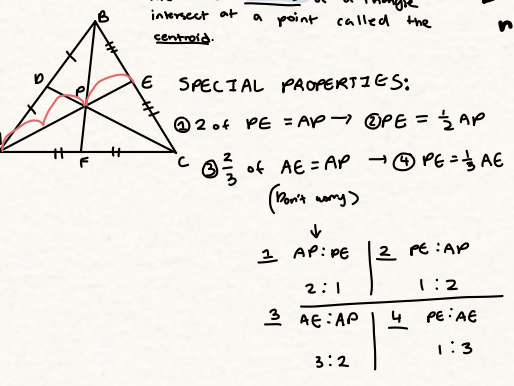
If $\overline{BD} \cong \overline{DC}$, $\overline{AB} \perp \overline{BD}$, $\overline{AC} \perp \overline{DC}$ THEN \overline{AD} bisects $\angle BAC$

I was confused lol

Median

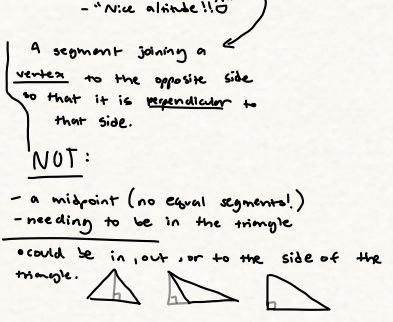


Centroid

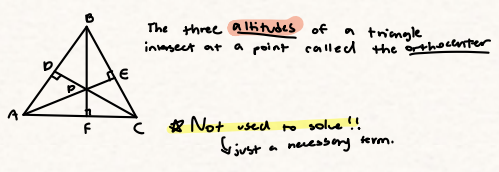


2 type it's not 11:42 PM

Altitude



Orthocenter (Last one)



:D you got this!

Thanks for
viewing my
notes! Good luck [🌀] in geometry!

Do not copy or repost.

