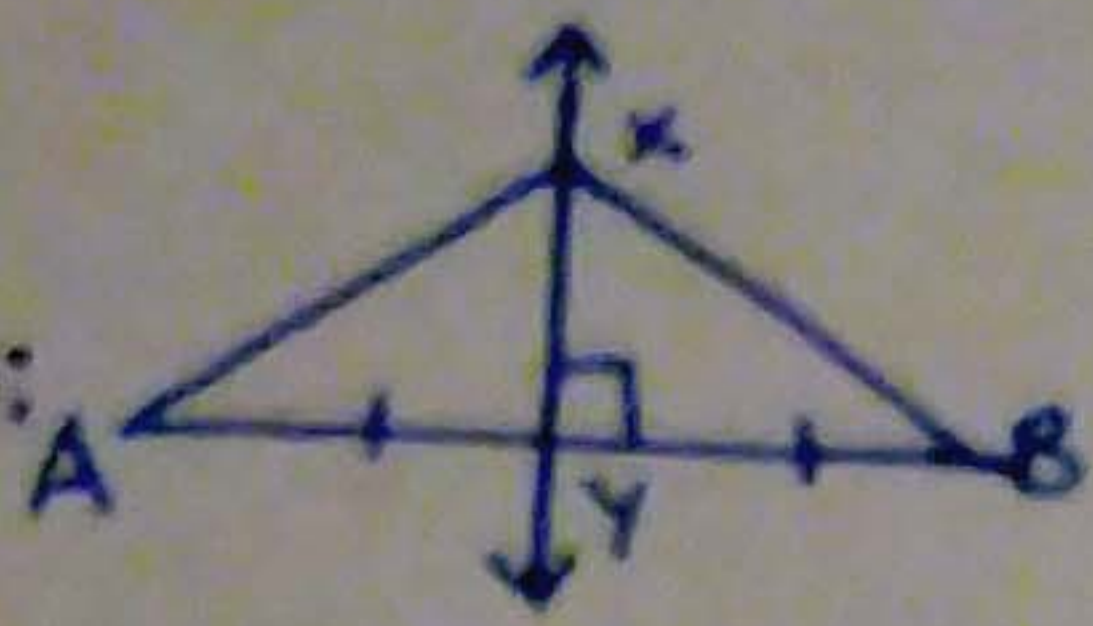


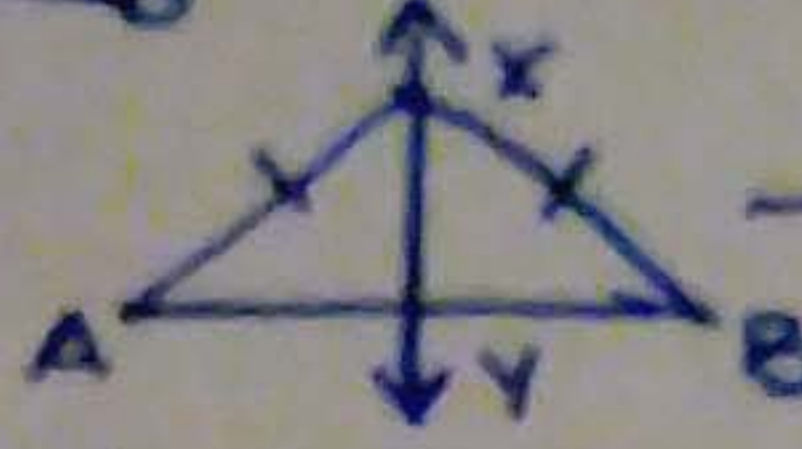
Name Key

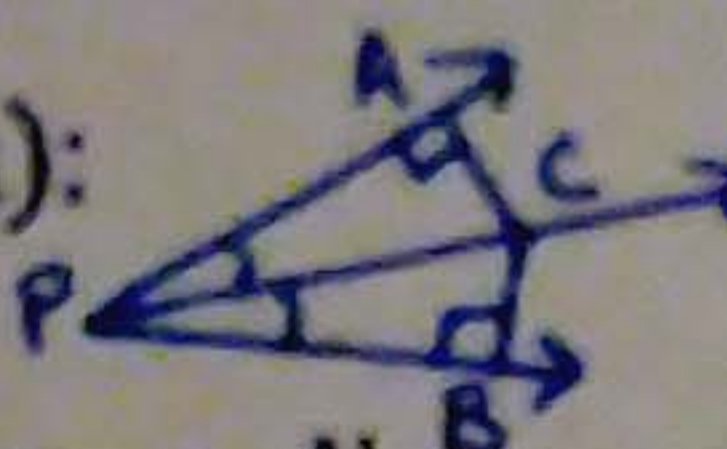
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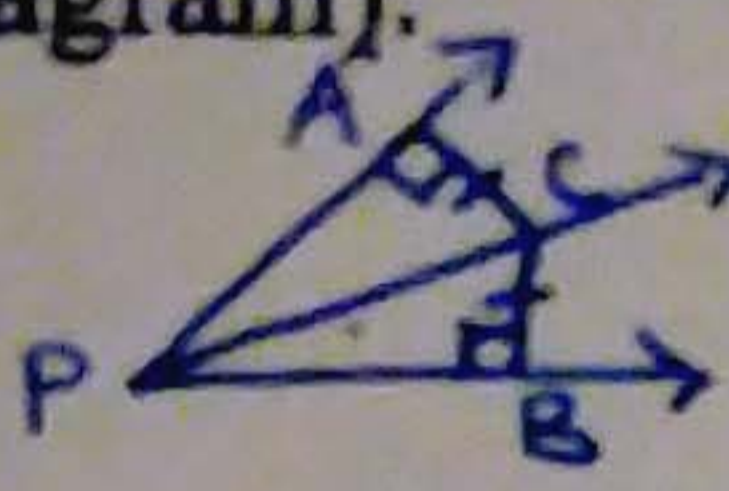
CHAPTER 6 REVIEW SHEET

Section 1:

⊥ Bisector Theorem (draw a diagram):  → $AX = BX$

Converse of ⊥ Bisector Theorem (draw a diagram):  → $\overline{XY} \perp \overline{AB}$ and $\overline{YA} \cong \overline{YB}$

Angle Bisector Theorem (draw a diagram):  → $AC = BC$

Converse of Angle Bisector Theorem (draw a diagram):  → $\angle APC \cong \angle BPC$

Section 2 and 3:

Point of concurrency: THE POINT WHERE THREE OR MORE LINES INTERSECT.

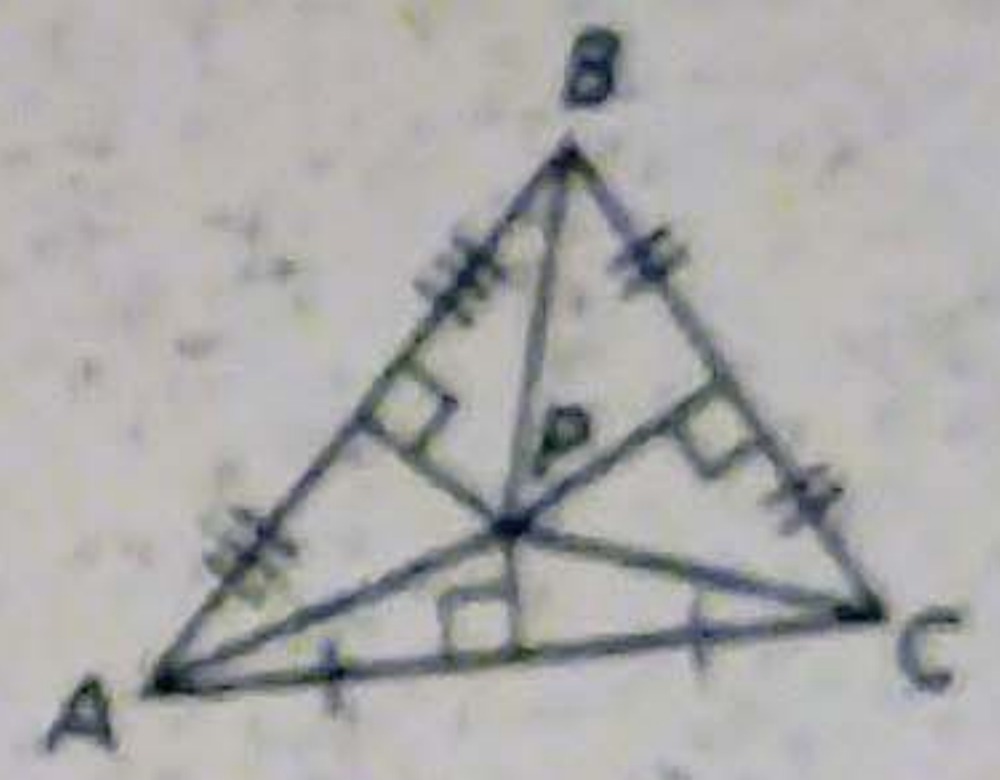
For the following 4 problems, fill in the first blank with the correct vocab term. Then fill in the blanks/answer the question(s) about its properties.

CIRCUMCENTER : where the PERPENDICULAR BISECTORS of the TRIANGLE intersect.

**equidistant from the VERTICES of the triangle

**When is this point inside/outside/on the triangle?:

ACUTE: INSIDE RIGHT: ON OBTUSE: OUTSIDE

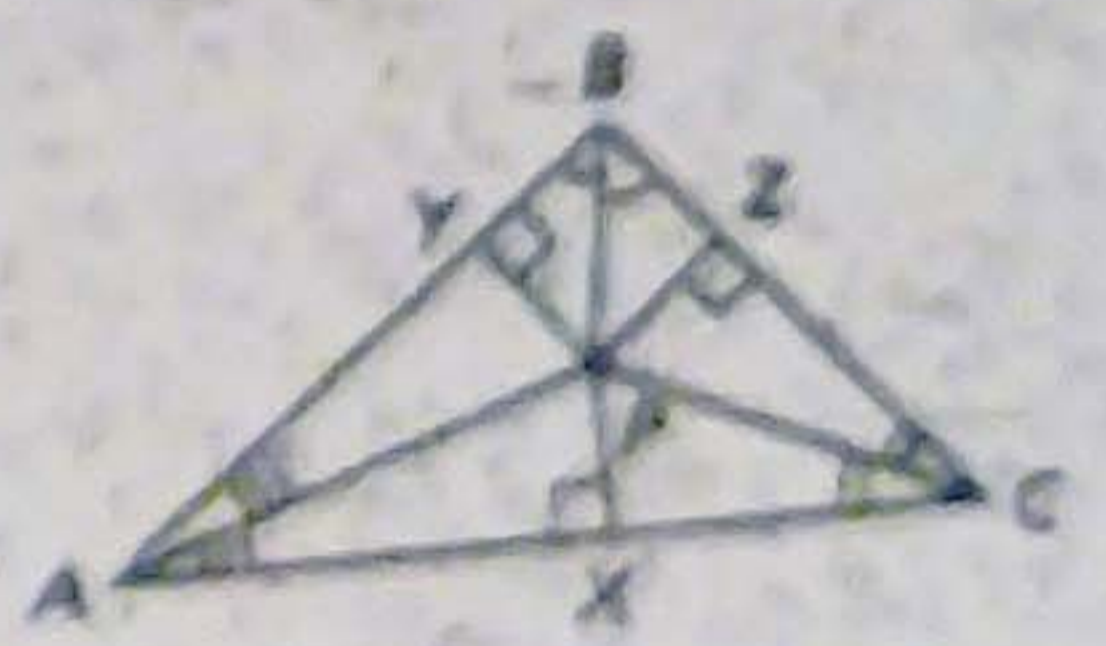


INCENTER : where the ANGLE BISECTORS of the TRIANGLE intersect.

**equidistant from the SIDES of the triangle

**Where is this point always located? Inside, outside, or on the triangle?:

ALWAYS INSIDE



Section 4:

Midsegment of a triangle connects two of the MIDPOINTS of the SIDES.

The midsegment triangle is: THE TRIANGLE FORMED BY THE THREE MIDSEGMENTS (AXYE)

Triangle Midsegment Theorem:

- 1) The midseg. is // to a side of the Δ
- 2) The length of the midseg. is 1/2 the length of that side

