

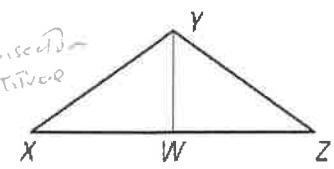
Name _____

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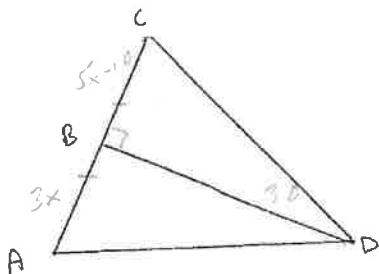
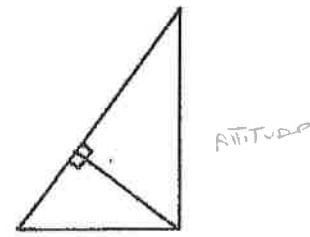
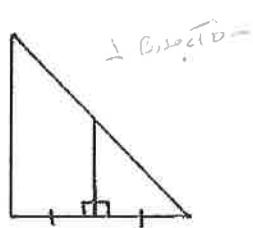
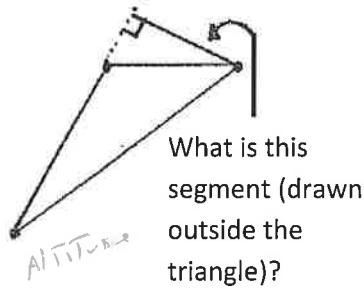
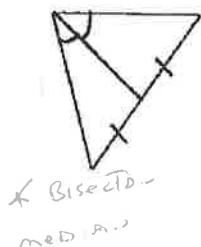
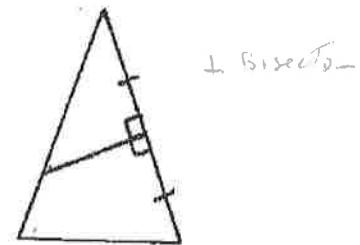
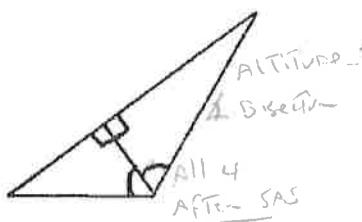
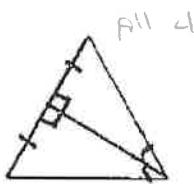
Use the diagram shown and the given info to decide whether \overline{YW} is a perpendicular bisector, an angle bisector, a median, or an altitude of $\triangle XYZ$. There may be more than one right answer.

- A) $\overline{YW} \perp \overline{XZ}$ ~~ALTITUDE~~
 B) $\overline{XW} \cong \overline{ZW}$ ~~MEDIAN~~
 C) $\triangle XYW \cong \triangle ZYW$ ~~RIGHT~~
 MEDIAN \cong BISECTOR
~~ALTITUDE~~

- D) $\angle XYW \cong \angle ZYW$ ~~ANGLE BISECTOR~~
 E) $\overline{YW} \perp \overline{XZ}$ and $\overline{XW} \cong \overline{ZW}$ ~~MEDIAN~~ ~~PERPENDICULAR BISECTOR~~
 F) $\overline{YW} \perp \overline{XZ}$ and $\overline{XY} \cong \overline{ZY}$ ~~ALL 4~~



Identify the segment drawn inside the triangle as an altitude, angle bisector, median, or angle bisector. There may be more than one correct answer.



$$\text{Given: } \angle CDB = 30^\circ$$

$$BP = 3x$$

$$\angle B = 5x - 10$$

\overline{BD} is an ALTITUDE

AND A MEDIAN

Find AC

$$3x = 5x - 10$$

$$x = 5$$

$$AC = 30$$

In $\triangle ABC$, \overline{BD} is an ALTITUDE

AND $\angle BAC = 5x + 5$ AND $\angle BDC = 7x + 13$

FIND ~~x~~ AND $\angle ABD$

