$$
\begin{aligned}
& 12-4-13 \\
& 1^{s+} G e 0
\end{aligned}
$$

5-3

$\overline{A X}$ is the medici of $\triangle A B C$


Altitude

$\overline{A X}$ is the altitude of $\triangle A B C$

$\overline{\overline{A X}}$ is altitude of $\triangle A B C$.

## Angle Bisector



Perpendicular Bisector

(1) In $\triangle A B C, \overline{A X}$ is the median. Find the le agt hof $\overline{A C}$.

(2) In $\triangle A B C, A=(1,3) \quad B=(4,-1)$
and $C=(-6,3)$.
What are the coordinates of $X$ if $\overline{C X}$ is med:on

$$
\text { of } \triangle A B C \text { ? }
$$




$$
\begin{array}{r}
\angle 1=\angle 3+\angle 4 \\
<1><3 \\
<1><4
\end{array}
$$


$C 1$ is larger th... which angles?

$$
<6,<7
$$


$\angle 1$ is largertban which angles?

$$
\angle 3, \angle 7, \angle 5,<6
$$


$\angle 1$ is lager thun which angles?

$$
<6,<7,<3,<4
$$



Which angles are less thin $\angle 1$ ?

$$
\angle 3, \angle 10<5, \angle 9<7,<8
$$

