See the answers to the Homework BELOW.

1. FT is a median of triangle FEG . Find x if $\mathrm{EG}=5 \mathrm{x}+3$ and $\mathrm{TG}=5 \mathrm{x}-7$.
2. HW is a median of triangle FGH . Find x if $\mathrm{GF}=4 \mathrm{x}$ and $\mathrm{WF}=3 \mathrm{x}-3$.
3. $X P$ is an angle bisector of triangle $W X V .<V X P=19 x$ and $\angle V X W=37 x+2$. Find $x$.
4. SP is an angle bisector of triangle STU. $\angle P S U=2 x+10$ and $<T S P=3 x$. Find $x$.
5. $A D$ is an altitude of triangle $A B C . B D=2 x, D C=3 x-4$, and $\angle A D C=4 x+10$. Find $B C$.

Answers:

1. $x=3.4$

2. 2 W

3. 10


$m \angle V D \sim W=2(m \angle V X P)$
$37 x+2=2(19 x)$


$$
\begin{aligned}
& x=0 \\
& 2=x
\end{aligned}
$$

