J anuary 302013 H.gwb - 1/4 - Wed J an 302013 15:02:56



2) If one of the angles of a triangle is $80^{\circ}$, find the measure of the angle formed by the bisectors of the other two angles
$\overrightarrow{R X}, \overrightarrow{T X}$ bisectors

$$
\begin{aligned}
\Rightarrow & \angle Y R X \\
\angle Y T X X & \cong T R X \\
\angle Y T X & =b
\end{aligned}
$$

$$
\begin{gathered}
80+a+a+b+b=180 \\
\frac{80+2 a+2 b=180}{-80} \begin{array}{c}
\frac{2 a}{2}+\frac{2 b}{2}=\frac{100}{2} \\
a+b=50
\end{array} \quad \begin{array}{l}
\sqrt{a+b b}+\angle x=180 \\
\frac{50+\angle x}{}=180 \\
\hline-50=130
\end{array}
\end{gathered}
$$


3) The exterior angle of $\triangle \mathrm{DEF}$ is $150^{\circ}$. If $\angle \mathrm{D}$ and $\angle \mathrm{E}$ are the remote interior angles and the measure of $\angle \mathrm{D}$ is twice that of $\angle \mathrm{E}$, find the measure of each angle of the triangle.

By exterior $<$ tam:

$$
\begin{aligned}
2 x+x & =150 & & \angle D=2 x=2(50)=100 \\
3 x & =150 & & \angle E=x=50 \\
x & =50 & & \angle y^{\circ}=180-150=30
\end{aligned}
$$



