September 122012 H．gwb－1／4－Wed Sep 122012 16：22：48


September 122012 H.gwb - 2/4 - Wed Sep 122012 16:36:25


3) Given: $\angle \mathrm{ABC}$ is a rt. $\angle$

$$
\begin{aligned}
& \mathrm{m} \angle 1=2 \mathrm{x}+10 \\
& \mathrm{~m} \angle 2=\mathrm{x}+20 \\
& \mathrm{~m} \angle 3=3 \mathrm{x}
\end{aligned}
$$

Has $\angle A B C$ been trisected?


$$
\angle 1+\angle 2+\angle 3=\angle A B C \quad \angle \text { addition postulate }
$$

$$
\begin{gathered}
2 x+10+x+20+3 x=90 \\
6 x+30=90 \\
6 x=60 \\
x=10
\end{gathered}
$$

