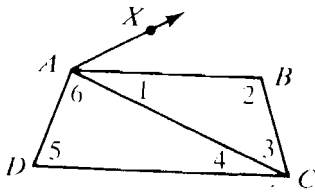
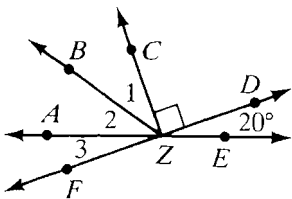


Use the diagram below.



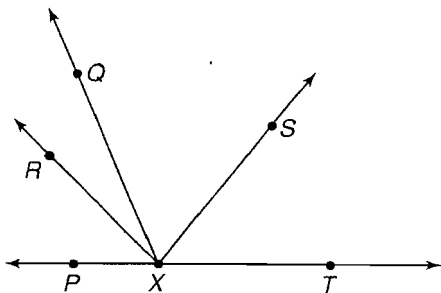
1. Name the vertex of $\angle XAC$.
2. Name the sides of $\angle XAC$.
3. Give another name for $\angle 4$ _____ ; for $\angle 2$ _____

Use the diagram below.



4. $\angle 2$ and $\angle 3$ are adjacent angles. Name their common vertex _____ and common side _____.
5. $m\angle CZD =$ _____, $m\angle AZC =$ _____, $m\angle FZC =$ _____
6. If \vec{ZB} bisects $\angle AZC$, then $m\angle$ _____ = $m\angle$ _____.
7. If $m\angle 3 = 20$, $m\angle 2 = 3x - 5$, and $m\angle 1 = 2x + 10$, find x .

In the figure below, \vec{XP} and \vec{XT} are opposite rays and \vec{XQ} bisects $\angle PXS$.



8. $m\angle SXT = 4x + 1$, $m\angle QXS = 2x - 2$, and $m\angle QXT = 125$. Find x and $m\angle QXS$.

9. $m\angle PXR = 3x$, $m\angle RXT = 5x + 20$. Find x and $m\angle RXT$.

10. $m\angle PXQ = 8x - 49$, $m\angle QXS = 5x - 4$. Find x and $m\angle PXS$.