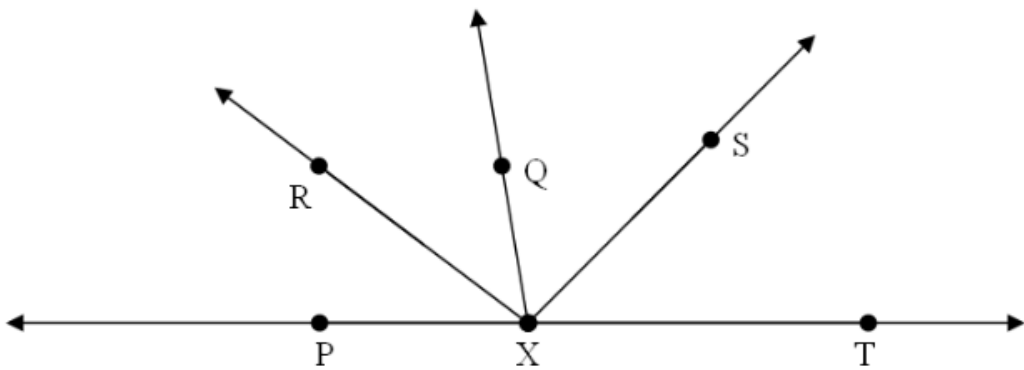
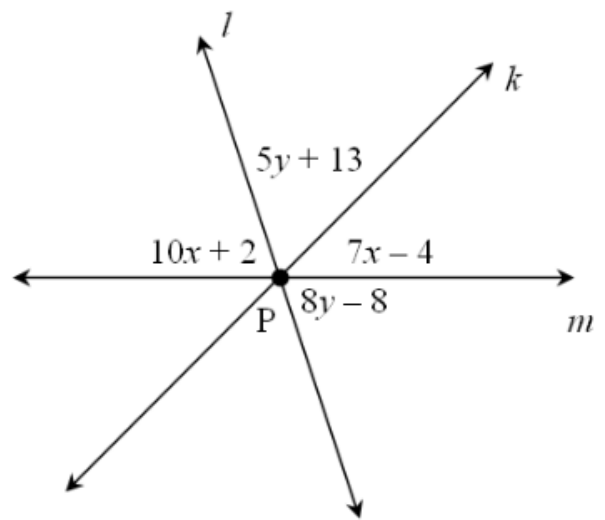


1. Use the following figure. In the figure, \overline{XP} and \overline{XT} are opposite rays, \overline{XR} bisects $\angle QXP$ and \overline{XS} bisects $\angle QXT$.
If $m\angle PXR = 7a - 12$, and $m\angle QXS = 10a + 4$,
find a and $m\angle PXS$.



2. Lines l , k , and m intersect at pt. P.
Find x and y in the following figure.



3. The measure of the supplement of an \angle is five less than six times the \angle 's complement.
Find the measure of the \angle , the measure of its complement, and the measure of its supplement.

4. In $\angle ABC$, $\angle 1 \cong \angle 2$. If $\angle 1 = 4x - 5$, $\angle 2 = 7y - 1$, and $\angle ABC = 3x + 9y - 6$, find x and y .

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