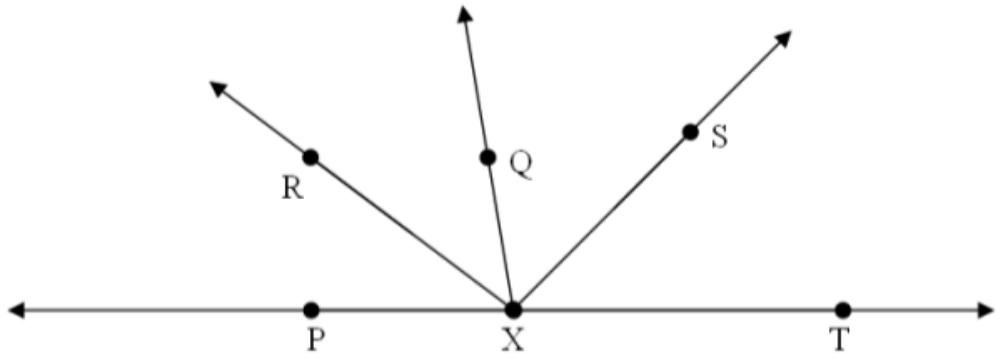
1. **If Y is between A and B, find x and the measure of $\overline{YB}$ when AY = $\frac{4}{5}x+7$, YB = $\frac{7}{3}x-1$, and AB = $\frac{17}{4}x+3$**

2. **M is the midpoint of $\overline{AB}$. If AM = $3x + 7y$, MB = $2x + 5y + 4$, and AB = $11x - y$, Find x, y, and AB.**

3. **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 $m\angle PXQ = 7a + 23$, and $m\angle QXS = 13a - 14$,
find a and $m\angle PXS$.



4. **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 compliment, and the measure of its supplement**

5. A ship on an azimuth of 217° suddenly moves on a bearing of N 76° W Draw a figure to represent this.

6. Two angles are complementary . One angle is seven less than twice the other. Find both angle measurements in RADIANS

7. An angle has a measure of $\frac{4\pi}{11}$.

Find the sum of the angles complement and supplement.