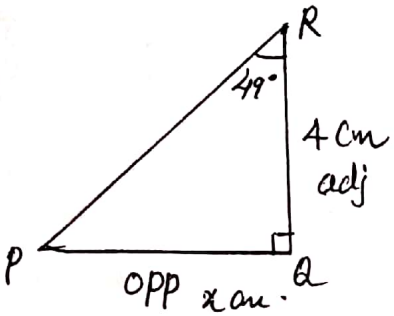
Finding a side adjacent to the given angle.

2. $\hat{R} = 90° - 41°$

$= 49°$



$\frac{x}{4} = \tan 49°$

$\frac{x}{4} = 1.150368407$

$x = 4.601473629$

$x = 4.60$

$QP = 4.60\ cm$

3) $\hat{y} = 90° - 58.5°$

$= 31.5°$

(xy) adj = 6cm, (xz) opp = x cm

$\frac{opp}{adj} = \frac{x}{6} = \tan 31.5°$

$\frac{x}{6} = \tan 31.5°$

$\frac{x}{6} = 0.612800788$

$x = 3.676804729$

$x = 3.68$

$XZ = 3.68\ cm$

6) $\hat{C} = 90° - 52°$

$= 38°$

adj (AC) = 8.5cm, opp (AB) = x cm

$\frac{x}{8.5} = \tan 38°$

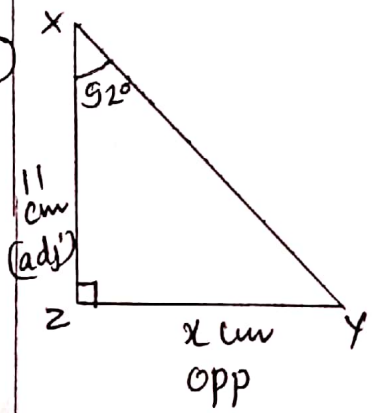
$\frac{x}{8.5} = 0.781285626$

$x = 6.640927825$

$x = 6.64$

$AB = 6.64\ cm$

8)



$\hat{y} = 38°$

$\hat{x} = 90 - 38°$

$= 52°$

$\frac{x}{11} = \tan 52°$

$\frac{x}{11} = 1.279941632$

$x = 14.07935795$

$x = 14.1$

$YZ = 14.1\ cm$