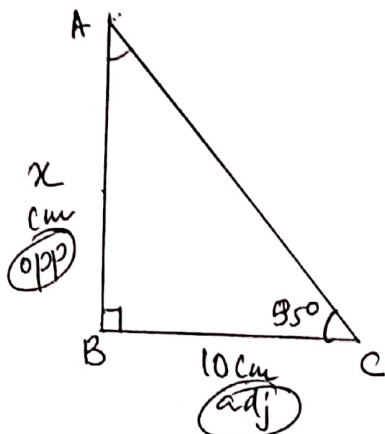


# Chapter - 16 , Exercise 16g

## Problems:

1.



$$\hat{A} = 35^\circ$$

$$\hat{C} = 90^\circ - 35^\circ = 55^\circ$$

$$\frac{x}{10} = \frac{\text{opp}}{\text{adj}} = \tan 55^\circ$$

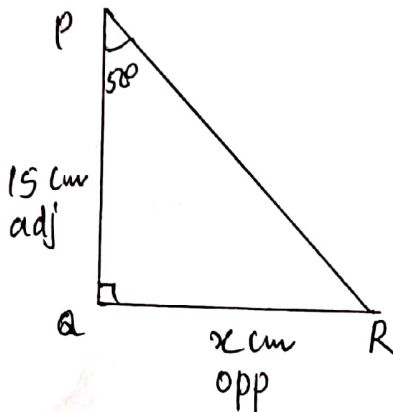
$$\frac{x}{10} = 1.428148007$$

$$x = 14.28148007$$

$$x = 14.3$$

$$AB = 14.3 \text{ cm}$$

2)



$$\frac{x}{15} = \frac{\text{opp}}{\text{adj}} = \tan 50^\circ$$

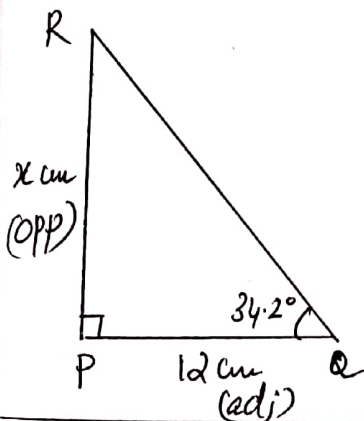
$$\frac{x}{15} = 1.191753593$$

$$x = 17.87630389$$

$$x = 17.9$$

$$QR = 17.9 \text{ cm}$$

3)



$$\frac{x}{12} = \frac{\text{opp}}{\text{adj}} = \tan 34.2^\circ$$

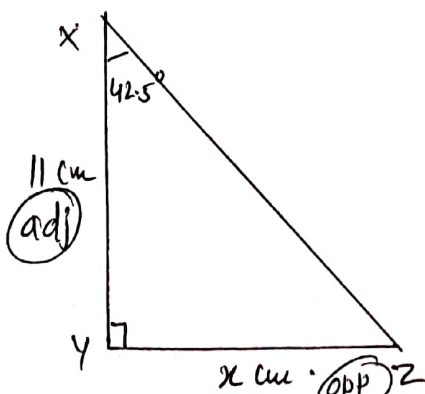
$$\frac{x}{12} = 0.679599298$$

$$x = 8.155191579$$

$$x = 8.16$$

$$PR = 8.16 \text{ cm}$$

4)



$$\frac{x}{11} = \tan 42.5^\circ$$

$$\frac{x}{11} = 0.916331174$$

$$x = 10.07964291$$

$$x = 10.1$$

$$YZ = 10.1 \text{ cm}$$