

$$14) \hat{A} = 35.2^\circ, \text{adj} = 10\text{cm}, \text{opp} = x\text{cm}$$

$$\tan(\hat{A}) = \frac{\text{opp}}{\text{adj}}$$

$$\frac{x}{10} = \tan 35.2^\circ$$

$$\frac{x}{10} = 0.70542$$

$$x = 0.70542 \times 10$$

$$x = 7.0542$$

$$\underline{\underline{BC = 7.05\text{cm}}}$$

$$16) \hat{A} = 21.3^\circ, \text{adj} = 16\text{cm}, \text{opp} = x\text{cm}$$

$$\tan(\hat{A}) = \frac{\text{opp}}{\text{adj}}$$

$$\frac{x}{16} = \tan 21.3^\circ$$

$$\frac{x}{16} = 0.38988$$

$$x = 0.38988 \times 16$$

$$x = 6.23808$$

$$\underline{\underline{BC = 6.24\text{cm}}}$$

$$20) \hat{A} = 23^\circ, \text{adj} = 24\text{cm}, \text{opp} = x\text{cm}$$

$$\tan(\hat{A}) = \frac{\text{opp}}{\text{adj}}$$

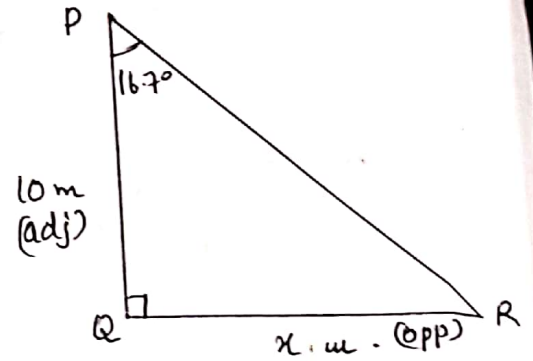
$$\frac{x}{24} = \tan 23^\circ$$

$$\frac{x}{24} = 0.42447$$

$$x = 10.18728$$

$$\underline{\underline{BC = 10.2\text{cm}}}$$

22)



$$\hat{P} = 16.7^\circ, \text{adj} = 10\text{m}, \text{opp} = x\text{m}$$

$$\tan(\hat{P}) = \frac{\text{opp}}{\text{adj}}$$

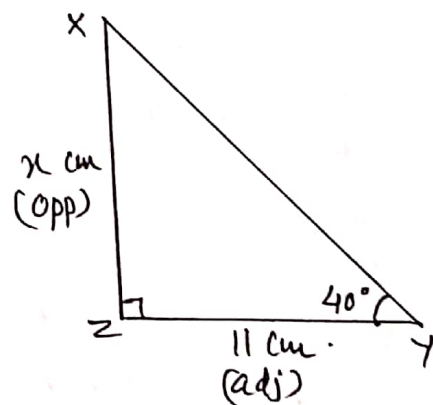
$$\frac{x}{10} = \tan(16.7^\circ)$$

$$\frac{x}{10} = 0.300014377$$

$$x = 3.00014377$$

$$\underline{\underline{QR = 3.00\text{m}}}$$

24)



$$\hat{Y} = 40^\circ, \text{adj} = 11\text{cm}, \text{opp} = x\text{cm}$$

$$\tan(\hat{Y}) = \frac{\text{opp}}{\text{adj}}$$

$$\frac{x}{11} = \tan 40^\circ$$

$$\frac{x}{11} = 0.839099631$$

$$x = 9.230095943$$

$$\underline{\underline{x2 = 9.23\text{cm}}}$$