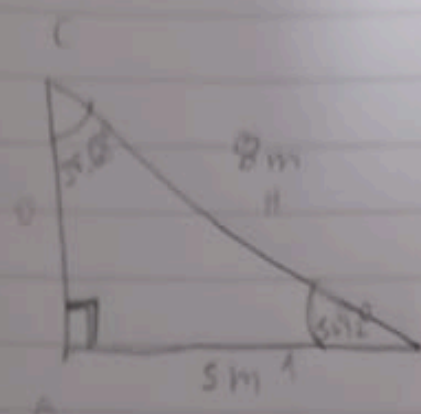


7]



$$(i) \cos x = \frac{5}{8}$$

$$x = \cos^{-1}\left(\frac{5}{8}\right)$$

$$x = 51.32^\circ$$

$$ii) x = 180 - 90 - 51.32$$

$$x = 38.68^\circ$$

Angle C is 38.68°

$$iii) \sin 38.68 = \frac{x}{8}$$

$$8 \sin 38.68 = x$$

$$x = 5m$$