



7.

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

$$x \cos^{-1} = \frac{5}{8}$$

$$x = 51.32^\circ$$

i) Angle B

2 d.p.

ii) Angle C

iii) Length AC

$$ii) 180^\circ - 90^\circ - 51.32^\circ = 38.68^\circ$$

$$iii) (8)^2 = (5)^2 + AC^2$$

$$64 = 25 + AC^2$$

$$64 - 25 = AC^2$$

$$39 = AC^2$$

$$\sqrt{39} = AC$$

$$AC = 6.24 \text{ m}$$