

$$180 + 54.46 = 234.46^\circ$$

$$180 - 54.46 = 125.54^\circ$$

$$\alpha = 234.46^\circ \quad \alpha = 125.54^\circ$$

$$(ii) \quad 5 \cos \alpha = 3$$

$$\cos \alpha = \frac{3}{5}$$

$$\alpha = \cos^{-1}(0.6) \quad \alpha = 53.13$$

$$\alpha = 360 - 53.13 = 306.87^\circ$$

Question three

$$(ii) \quad B = \dots = 23m \dots$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{23}{\sin 105} = \frac{b}{\sin 125.50} = \frac{18}{\sin 49.46}$$