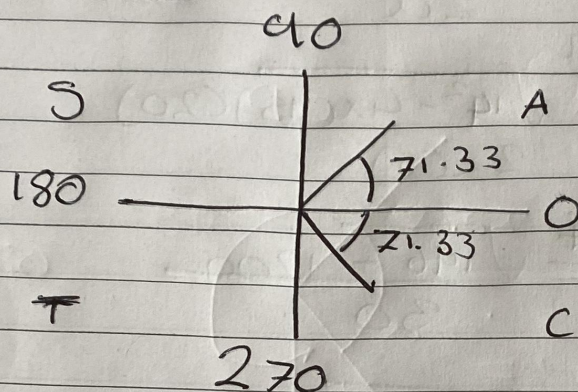


b) Trigonometric equations

i) $\cos x = 0.32$

$$x = \cos^{-1} 0.32$$

$$\underline{x = 71.33^\circ}$$



$$360 - 71.33 = 288.67$$

$$\cos(288.67) = 0.32$$

$$x = 0.32$$

(ii) ~~ii)~~

$$8 \sin x = 3$$

$$\sin x = \frac{3}{8}$$

$$x = \sin^{-1} \left(\frac{3}{8} \right)$$

$$x = 22.02^\circ$$