

Question 3

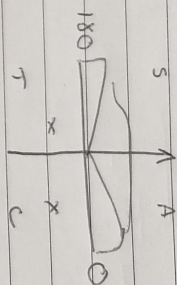
1) $\sin x = 0.75$

$x = \sin^{-1} 0.75$

$x = 48.59^\circ$

$x = 131.41^\circ$

Answers

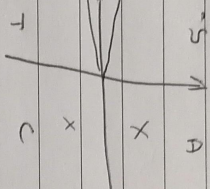


ii) $-\cos x = 2$

$x = \frac{2}{-1}$ (ignore minus)

$x = \cos^{-1} 0.4$

$x = 66.42^\circ \leftarrow \text{Not Answer}$



$$= 180 - 66.42 = 113.58^\circ$$

$$= 180 + 66.42 = 246.42^\circ$$

Answers

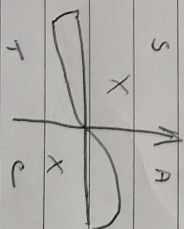
iii) $8 \tan x = 1$

$x = \tan^{-1} \frac{1}{8} = 0.125$

$x = 7.125^\circ$

$x = 187.125^\circ$

Answers



iv) $\tan^2 x - 14 \tan x + 24 = 0$

$x^2 - 14x + 24 = 0$

Both

$(x - 12)(x - 2)$

$x^2 - 22x + 24$

$$\begin{array}{r|l} 24 & \\ -1 & -24 \\ \hline -3 & -12 \\ -4 & -8 \end{array}$$

Continued

(P8)