

a ii) $-5 \cos x = 2$

$$x = \cos^{-1}\left(\frac{2}{-5}\right)$$

Ignore minus

$$x = 66.42$$

Not an answer

$$x = 180 - 66.42$$

S/A
T/C

$$x = 113.58^\circ$$

$$x = 180 + 66.42$$

$$x = 246.42^\circ$$

a iii) $8 \tan x = 1$

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

S/A
T/C

$$x = 7.13^\circ$$

$$x = 180 + 7.13$$

$$x = 187.13^\circ$$

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

$$(\tan x - 2)(\tan x - 12)$$

$$\tan x - 2 = 0$$

$$\tan x - 12 = 0$$

$$x = \tan^{-1} 2$$

$$x = \tan^{-1} 12$$

S/A
T/C

$$x = 63.43^\circ$$

$$x = 85.24^\circ$$

$$x = 180 + 63.43$$

$$x = 180 + 85.24$$

$$x = 243.43^\circ$$

$$x = 265.24^\circ$$