

8. (i) Prove that

$$\sec^2 x - \operatorname{cosec}^2 x = \tan^2 x - \cot^2 x.$$

(3)

(ii) Given that

$$y = \arccos x, \quad -1 \leq x \leq 1 \text{ and } 0 \leq y \leq \pi.$$

(a) express $\arcsin x$ in terms of y .

(2)

(b) Hence evaluate $\arccos x + \arcsin x$. Give your answer in terms of π .

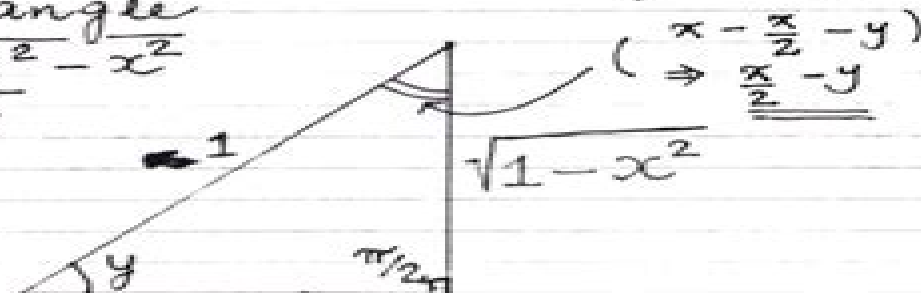
(1)

$$(ii) \quad y = \arccos x \Rightarrow y = \cos^{-1}(x)$$

$$\cos y = \frac{x}{1} \quad \leftarrow \frac{\text{ADJACENT}}{\text{HYP}} \quad (\text{SOH CAH TOA})$$

Let's show in a right-angle triangle

$$\begin{aligned} \text{OP}(y) &\Rightarrow \sqrt{1^2 - x^2} \\ &\Rightarrow \sqrt{1 - x^2} \end{aligned}$$



We know that -

$$\sin\left(\frac{x}{2} - y\right) = \frac{x}{1}$$

$$\therefore \text{So, } \frac{x}{2} - y = \sin^{-1}(x)$$

$$\arcsin x = \frac{x}{2} - y \quad \underline{\text{Ans}}$$



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