

8. (i) Prove that

$$\sec^2 x - \operatorname{cosec}^2 x = \tan^2 x - \cot^2 x \quad (3)$$

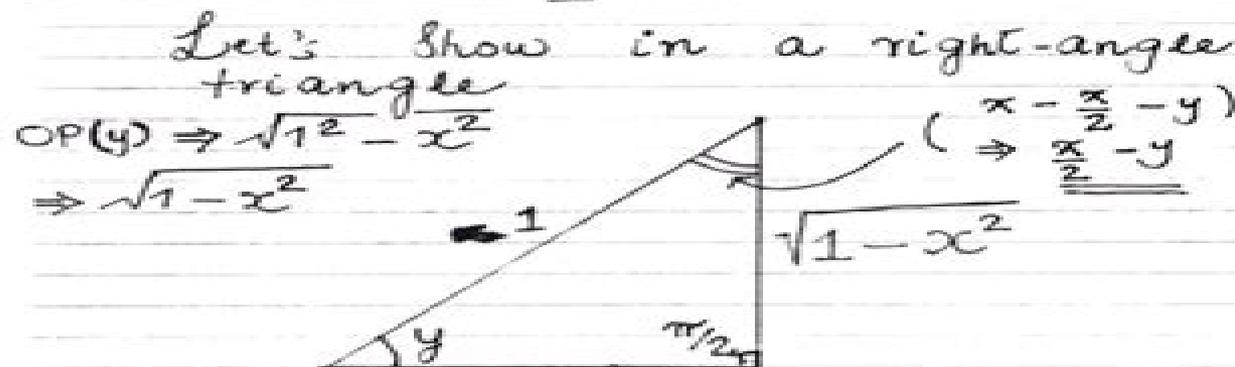
(ii) Given that

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

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

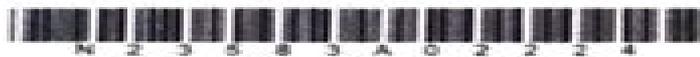


We know that -

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

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

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



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web mar 11 2014 solution ionic equation $\text{H}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{Na}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{Na}^+ \text{aq} + \text{Cl}^- \text{aq} + \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ the spectator ions are Cl^- and Na^+ net ionic equation $\text{H}^+ \text{aq} + \text{HCO}_3^- \text{aq} \rightarrow \text{H}_2\text{O} \text{l} + \text{CO}_2 \text{g}$ here is a video on spectator ions

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web the six $\text{NO}_3^- \text{aq}$ ions and the six $\text{Na}^+ \text{aq}$ ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{Ba}^{2+} \text{aq} + 2\text{PO}_4^{3-} \text{aq} \rightarrow \text{Ba}_3(\text{PO}_4)_2 \text{s}$

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