

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 .

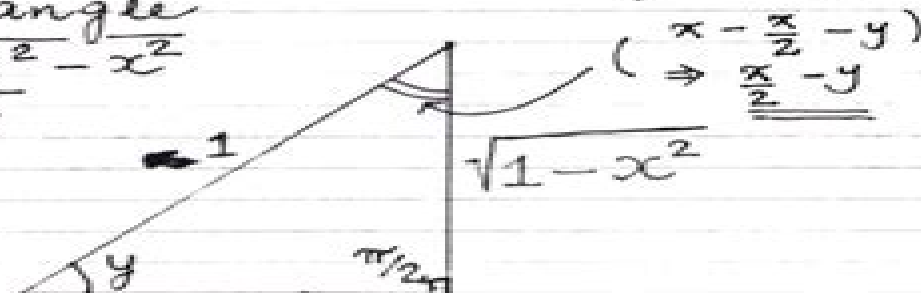
(1)

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

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

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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What is a Mathematical Concept? Elizabeth de Freitas, Nathalie Sinclair, Alf Coles, 2017-06-22 Responding to widespread interest within cultural studies and social inquiry this book addresses the question what is a mathematical concept using a variety of vanguard theories in the humanities and posthumanities Tapping historical philosophical sociological and psychological perspectives each chapter explores the question of how mathematics comes to matter Of interest to scholars across the usual disciplinary divides this book tracks mathematics as a cultural activity drawing connections with empirical practice Unlike other books in this area it is highly interdisciplinary devoted to exploring the ontology of mathematics as it plays out in different contexts This book will appeal to scholars who are interested in particular mathematical habits creative diagramming structural mappings material agency interdisciplinary coverings that shed light on both mathematics and other disciplines Chapters are also relevant to social sciences and humanities scholars as each offers philosophical insight into mathematics and how we might live mathematically

Conceptual Maths Peter Mattock, 2023-04-05 Written by Peter Mattock Conceptual Maths Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book *Visible Maths* Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in *Conceptual Maths* is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed *Conceptual Maths* also includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post 16 settings

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