

Trigonometry Questions and Solutions for O Level Additional Mathematics (4037)

Questions

2005 Paper 2 Question 5: Solve the equation $2 \sin x + \sqrt{3} = 0$ for $0^\circ \leq x \leq 360^\circ$.

2006 Paper 1 Question 3: Find the exact value of $\sin(45^\circ + 30^\circ)$.

2007 Paper 2 Question 4: Given $\tan \theta = 3$ and $\cos \theta > 0$, find $\sin \theta$ and $\cos \theta$.

2008 Paper 1 Question 6: Prove the identity $\cot x = \cos x / \sin x$.

2009 Paper 2 Question 7: Solve the equation $3 \cos^2 x - 2 = 0$ for $0^\circ \leq x \leq 360^\circ$.

2010 Paper 1 Question 5: If $\cos A = 3/5$ and A is in the first quadrant, find $\sin A$.

2011 Paper 2 Question 3: Find the general solution of $\sin x = 1/2$.

2012 Paper 1 Question 8: Express $\sin(2\theta)$ in terms of $\sin \theta$ and $\cos \theta$.

2013 Paper 2 Question 5: Prove that $\tan(A + B) = (\tan A + \tan B) / (1 - \tan A \tan B)$.

2014 Paper 1 Question 9: Simplify $\sec^2 x - \tan^2 x$.

2015 Paper 2 Question 4: Solve $\cos 2x = \sin x$ for $0^\circ \leq x \leq 360^\circ$.

2016 Paper 1 Question 6: If $\cot \theta = 2$, find $\sin \theta$ and $\cos \theta$.

2017 Paper 2 Question 3: Find the exact value of $\cos 75^\circ$.

2018 Paper 1 Question 4: Prove the identity $\cos^2 x - \sin^2 x = \cos 2x$.

2019 Paper 1 Question 7: Solve the equation $4 \sin^2 x - 3 = 0$ for $0^\circ \leq x \leq 360^\circ$.

Solutions

Solution 1: 2005 Paper 2 Question 5

- $2 \sin x + \sqrt{3} = 0$
- $\sin x = -\sqrt{3} / 2$
- $x = 240^\circ$ or $x = 300^\circ$

Solution 2: 2006 Paper 1 Question 3

- Use the angle addition formula: $\sin(A + B) = \sin A \cos B + \cos A \sin B$

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,1903 Mathematical Questions and Solutions, from "The Educational Times", with Many Papers and Solutions in Addition to Those Published in "The Educational Times" ..., 1896 **Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times"**, 1902 **Conceptual Geometry of Straight Line** Chandra Shekhar Kumar, 2018-03-25 This work contains conceptual solutions to the problems and exercises given in Chapters I VI Covering Straight Line of S L Loney s Co ordinate Geometry including variations of problems solutions methods and approaches These solutions strengthen and enliven the inherent multi concepts to enrich the heritage set forth by S L Loney The present work will serve as a complete guide to private students reading the subject with few or no opportunities of instruction This will save the time and lighten the work of Teachers as well This book helps in acquiring a better understanding of the basic principles of Straight Line Co ordinate Geometry and in revising a large amount of the subject matter quickly Care has been taken as in the forthcoming ones to present the solutions with multi concepts and beyond in a simple natural manner in order to meet the difficulties which are most likely to arise and to render the work intelligible and instructive **Mathematical Questions and Solutions, from the "Educational Times"** W. J. C. Miller, 1900

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Directory Great Britain. Department of Science and Art, 1894 Conceptual Kinematics Chandra Shekhar Kumar, Conceptual Kinematics A Companion to I E Irodov s Problems in General Physics This work contains several variations of problems solutions methods approaches related to Kinematics of I E Irodov s Problems in General Physics These solutions strengthen and enliven the inherent multi concepts including but not limited to analytics graphical geometry calculus trigonometric geometry scalar vector algebra differential equations extrema without calculus to enrich the heritage set forth by I E Irodov The present work will serve as a complete guide to private students reading the subject with few or no opportunities of instruction This will save the time and lighten the work of Teachers as well This book helps in acquiring a better understanding of the basic principles of Kinematics and in revising a large amount of the subject matter quickly Care has been taken as in the forthcoming ones to present the solutions with multi concepts and beyond in a simple natural manner in order to meet the difficulties which are most likely to arise and to render the work intelligible and instructive

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