# 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 $0° \leq x \leq 360°$.

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

**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 $0° \leq x \leq 360°$.

**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 $0° \leq x \leq 360°$.

**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 $\cos 75°$.

**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 $0° \leq x \leq 360°$.

## Solutions

**Solution 1: 2005 Paper 2 Question 5**
1. $2 \sin x + \sqrt{3} = 0$
2. $\sin x = -\sqrt{3} / 2$
3. $x = 240°$ or $x = 300°$

**Solution 2: 2006 Paper 1 Question 3**
1. Use the angle addition formula: $\sin(A + B) = \sin A \cos B + \cos A \sin B$

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**Minjie Lin**

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