

Worksheet: Inverse Trigonometric Functions

IGCSE · Class 12 · Mathematics · 3 questions · 11 marks

Name: _____	Date: _____	Score: _____ / 11
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Q1. Find the principal values of: (i) $\sin^{-1}(3/2)$ (ii) $\cos^{-1}(\cos(7\pi/6))$ (iii) $\tan^{-1}(3)$. [2 marks]

Q2. Prove that $\tan^{-1}(1/2) + \tan^{-1}(2/11) = \tan^{-1}(3/4)$. [3 marks]

Q3. Prove that: $\sin^{-1}(12/13) + \cos^{-1}(4/5) + \tan^{-1}(63/16) = \pi$ [6 marks]