

Worksheet: Trigonometric Functions

Kerala State Board · Class 11 · Mathematics · 3 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. Evaluate: $\sin 30^\circ \cos 60^\circ + \cos 30^\circ \sin 60^\circ$. [2 marks]

Q2. Prove: $(1 + \tan^2 \theta) / (1 + \cot^2 \theta) = \tan^2 \theta$. [4 marks]

Q3. If $\tan \theta = 3/4$ and θ is in the first quadrant, find $\sin 2\theta$, $\cos 2\theta$, and $\tan 2\theta$. [6 marks]
