

WORKSHEET

Quotient Identities

Unsolved with Answer key



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Quotient Identities

Q1. Simplify the expression using quotient identities: $\sin \theta / \cos \theta + \cos \theta / \sin \theta$.

Q2. Prove the identity: $\tan^2 \theta + 1 = \sec^2 \theta$.

Q3. Simplify the following expression using quotient identities: $\tan \theta / \cot \theta$.

Q4. Prove the identity: $\cot^2 \theta + 1 = \csc^2 \theta$.

Q5. Simplify the following trigonometric expression: $\sec \theta / \operatorname{cosec} \theta$.

Answer Key

$$y = mx + c$$

1. $\sec \theta \times \operatorname{cosec} \theta$.

3. $\tan^2 \theta$

5. $\tan \theta$

