Name _____

Trigonometric Treasures: Exploring Identities and Their Uses

Short Answer Key

1. Reciprocal identities show the relationships between trigonometric functions and their reciprocals.
2. An example of a quotient identity involving trigonometric functions is tan(x) = sin(x) / cos(x).
3. The most well-known Pythagorean identity is sin^2 (x) + cos^2(x) = 1.
4. Trigonometric identities are used in practice to solve equations, simplify expressions, and prove theorems in mathematics.
5. Pythagorean identities relate the squares of trigonometric functions to each other, such as sin^2 (x) + cos^2(x) = 1.

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