

Trig Identities Flashcards PDF

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What is the Pythagorean identity?

$$\sin^2(\theta) + \cos^2(\theta) = 1$$

What is the sine of an angle in terms of cosine?

$$\sin(\theta) = \cos(90^\circ - \theta)$$

What is the cosine of an angle in terms of sine?

$$\cos(\theta) = \sin(90^\circ - \theta)$$

What is the tangent of an angle in terms of sine and cosine?

$$\tan(\theta) = \sin(\theta) / \cos(\theta)$$

What is the cotangent of an angle in terms of sine and cosine?

$$\cot(\theta) = \cos(\theta) / \sin(\theta)$$

What is the secant of an angle in terms of cosine?

$$\sec(\theta) = 1 / \cos(\theta)$$

What is the cosecant of an angle in terms of sine?

$$\csc(\theta) = 1 / \sin(\theta)$$

What is the relationship between the tangent and cotangent?

$$\tan(\theta) = 1 / \cot(\theta) \text{ and } \cot(\theta) = 1 / \tan(\theta)$$