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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?

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

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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?

 $tan(\theta) = 1 / cot(\theta)$ and $cot(\theta) = 1 / tan(\theta)$