

# PRECALCULUS IDENTITIES AND FORMULAS

<b>RECIPROCAL IDENTITY*</b>	$\sin \theta = \text{————}$	$\cos \theta = \text{————}$	$\tan \theta = \text{————}$	<b>QUOTIENT IDENTITY*</b>	$\tan \theta = \text{————}$
	$\csc \theta = \text{————}$	$\sec \theta = \text{————}$	$\cot \theta = \text{————}$		$\cot \theta = \text{————}$

<b>PYTHAGOREAN IDENTITY*</b>			
	Known as: $a^2 + b^2 = c^2$	Remember: "I TASTE SALT"	Remember: "I CUT CHEESECAKE"

<b>COFUNCTION IDENTITY*</b>	$\sin \theta =$	$\csc \theta =$
	$\cos \theta =$	$\sec \theta =$
	$\tan \theta =$	$\cot \theta =$

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<b>SUM AND DIFFERENCES</b>	$\sin(x + y) =$	$\sin(x - y) =$
	$\cos(x + y) =$	$\cos(x - y) =$
	$\tan(x + y) =$	$\tan(x - y) =$

<b>DOUBLE ANGLE FORMULA</b>	$\sin(2\theta) =$	$\cos(2\theta) =$
		$\cos(2\theta) =$
	$\tan(2\theta) =$	$\cos(2\theta) =$

<b>HALF ANGLE IDENTITY</b>	$\sin \frac{\theta}{2} =$	$\cos \frac{\theta}{2} =$	$\tan \frac{\theta}{2} =$
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