

PRE-CALCULUS TRIGONOMETRY CHEAT SHEET

PYTHAGORAS IDENTITIES

$\sin \theta = \frac{1}{\csc \theta}$	$\cos \theta = \frac{1}{\sec \theta}$	$\tan \theta = \frac{1}{\cot \theta}$
$\csc \theta = \frac{1}{\sin \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\cot \theta = \frac{1}{\tan \theta}$

QUOTIENT IDENTITIES

$\tan \theta = \frac{\sin \theta}{\cos \theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$
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PHYTAGOREAN IDENTITIES

$\sin^2 \theta + \cos^2 \theta = 1$	$\tan^2 \theta + 1 = \sec^2 \theta$	$1 + \cot^2 \theta = \csc^2 \theta$
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NEGATIVE ANGLE IDENTITIES

$\sin (-\theta) = -\sin \theta$	$\cos (-\theta) = \cos \theta$	$\tan (-\theta) = -\tan \theta$
$\csc (-\theta) = -\csc \theta$	$\sec (-\theta) = \sec \theta$	$\cot (-\theta) = -\cot \theta$