Name_____

Trigonometric Identities

Pythagorean Identities	**Alternate Form 1**	**Alternate Form 2**

Reciprocal Identities	
$\sin\theta =$	$\csc\theta =$
$\cos\theta =$	$\sec\theta =$
$\tan\theta =$	$\cot\theta =$

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

Quotient Identities	
$\tan\theta =$	$\cot\theta =$

Co-Function Identities	
$\sin\theta =$	$\cos\theta =$
$\tan\theta =$	$\cot\theta =$
$\sec\theta =$	$\csc\theta =$

Sum and Difference Identities
$\cos(\alpha+\beta) =$
$\cos(\alpha-\beta) =$
$\sin(\alpha+\beta) =$
$\sin(\alpha-\beta) =$

Power Reduction Identities
$\sin^2\theta =$
$\cos^2\theta =$

Double Angle Identities
$\sin 2\theta =$
$\cos 2\theta =$ (3 forms)
$\tan 2\theta =$

Half Angle Identities
$\cos\frac{\theta}{2} =$
$\sin\frac{\theta}{2} =$
$\tan\frac{\theta}{2} =$