

Name _____

Trigonometric Identities

Pythagorean Identities	Alternate Form 1	Alternate Form 2

Reciprocal Identities	
sin θ =	csc θ =
cos θ =	sec θ =
tan θ =	cot θ =

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

Quotient Identities	
tan θ =	cot θ =

Co-Function Identities	
sin θ =	cos θ =
tan θ =	cot θ =
sec θ =	csc θ =

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

Power Reduction Identities
sin ² θ =
cos ² θ =

Double Angle Identities
sin 2θ =
cos 2θ = (3 forms)
tan 2θ =

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