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Sum and Difference Formulas	
$\sin(u + v) = \sin u \cos v + \cos u \sin v$	$\sin(u - v) = \sin u \cos v - \cos u \sin v$
$\cos(u + v) = \cos u \cos v - \sin u \sin v$	$\cos(u - v) = \cos u \cos v + \sin u \sin v$
$\tan(u + v) = \frac{\tan u + \tan v}{1 - \tan u \tan v}$	$\tan(u - v) = \frac{\tan u - \tan v}{1 + \tan u \tan v}$

Double and Half Angle Formulas		
$\sin\left(\frac{u}{2}\right) = \pm\sqrt{\frac{1 - \cos u}{2}}$	$\cos\left(\frac{u}{2}\right) = \pm\sqrt{\frac{1 + \cos u}{2}}$	$\tan\left(\frac{u}{2}\right) = \frac{1 - \cos u}{\sin u} = \frac{\sin u}{1 + \cos u}$
$\sin(2u) = 2 \sin u \cos u$	$\cos(2u) = \cos^2 u - \sin^2 u$	$\tan(2u) = \frac{2 \tan u}{1 - \tan^2 u}$

Square Formulas	
$\sin^2 u = \frac{1 - \cos(2u)}{2}$	$\tan^2 u = \frac{1 - \cos(2u)}{1 + \cos(2u)}$
$\cos^2 u = \frac{1 + \cos(2u)}{2}$	

Even and Odd Formulas		
$\sin(-x) = -\sin(x)$	$\cos(-x) = \cos(x)$	$\tan(-x) = -\tan(x)$

