Basic Trigonometric Identities			
Pythagorean Identities	Double Angle Formulas	Reduction Formulas	
$\cos^2 x + \sin^2 x = 1$ $\tan^2 x + 1 = \sec^2 x$ $\cot^2 x + 1 = \csc^2 x$	$\sin 2x = 2\sin x \cos x$ $\cos 2x = \begin{cases} \cos^2 x - \sin^2 x \\ 2\cos^2 x - 1 \\ 1 - 2\sin^2 x \end{cases}$	$\cos^2 x = \frac{1 + \cos 2x}{2}$ $\sin^2 x = \frac{1 - \cos 2x}{2}$ $\sin x \cos x = \frac{1}{2} \sin 2x$	
	Supplementary Integral	s	
Cosecant	Cotangent		
$\int \csc x dx = \ln\left \csc x - \cot x\right + C$ $\int \csc^2 x dx = -\cot x + C$	$\int \cot x dx = \ln \left \sin x \right $	$\int \cot x dx = \ln \left \sin x \right + C$	