

	$\cos \theta$	$\sin \theta$	$\tan \theta$	$\cot \theta$	$\sec \theta$	$\csc \theta$
DEFINITIONS						
RIGHT $\triangle$ $x, y$ PLANE $(r = \sqrt{x^2 + y^2})$	$\frac{\text{adj}}{\text{hyp}}$	$\frac{\text{opp}}{\text{hyp}}$	$\frac{\text{opp}}{\text{adj}}$	$\frac{\text{adj}}{\text{opp}}$	$\frac{\text{hyp}}{\text{adj}}$	$\frac{\text{hyp}}{\text{opp}}$
UNIT CIRCLE	$x$	$y$	$\frac{y}{x} = \text{slope}$	$\frac{x}{y}$	$\frac{r}{x}$	$\frac{r}{y}$
RECIPROCAL	$\cos \theta = \frac{1}{\sec \theta}$	$\sin \theta = \frac{1}{\csc \theta}$	$\tan \theta = \frac{1}{\cot \theta}$	$\cot \theta = \frac{1}{\tan \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\csc \theta = \frac{1}{\sin \theta}$
QUOTIENT			$\tan \theta = \frac{\sin \theta}{\cos \theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$		
ODD/EVEN	$\cos(-\theta) = \cos \theta$	$\sin(-\theta) = -\sin \theta$	$\tan(-\theta) = -\tan \theta$	$\cot(-\theta) = -\cot \theta$	$\sec(-\theta) = \sec \theta$	$\csc(-\theta) = -\csc \theta$
PYTHAGOREAN	$\cos^2 \theta + \sin^2 \theta = 1$ ( $\cos^2 \theta + \sin^2 \theta = 1$ )	$\sin^2 \theta = 1 - \cos^2 \theta$ ( $\cos^2 \theta + \sin^2 \theta = 1$ )	$\tan^2 \theta = \sec^2 \theta - 1$	$\cot^2 \theta = \csc^2 \theta - 1$	$\sec^2 \theta = 1 + \tan^2 \theta$	$\csc^2 \theta = 1 + \cot^2 \theta$
COFUNCTION	$\cos \theta = \sin(90^\circ - \theta)$	$\sin \theta = \cos(90^\circ - \theta)$				
SIGNS	QUADRANT I QUADRANT II QUADRANT III QUADRANT IV	+	+	+	+	+
	-	-	-	-	-	-
	+	+	+	+	+	+
GRAPH	VALUES IN QUADRANT I					
	0 = $0^\circ$	1	0	0	1	DNE
	$\frac{\pi}{6} = 30^\circ$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	$\frac{2}{\sqrt{3}}$	2
	$\frac{\pi}{4} = 45^\circ$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1	$\sqrt{2}$	$\sqrt{2}$
	$\frac{\pi}{3} = 60^\circ$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\sqrt{3}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	2
	$\frac{\pi}{2} = 90^\circ$	0	1	DNE	0	DNE