

Examples

* it may be easier for you to make a table that includes all 6 Trig Functions

* Use DNE for undefined on Openmath
Does not exist

Given $\theta = -\frac{2\pi}{3}$

Find:

$\sec \theta = -2$

$\cot \theta = \frac{\sqrt{3}}{3}$

$\sin \theta = -\frac{\sqrt{3}}{2}$

$\theta = -\frac{2\pi}{3} \cdot \frac{180}{\pi} = -\frac{360}{3} = -120$

$-120 + 360 = 240^\circ$

	0	30	45	60	90
Sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	undef
csc	undef DNE	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1
sec	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	undef
cot	undef	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0

Q3 RA=60

Example 2

Given $\theta = \frac{13\pi}{4}$

$\csc \theta = \sqrt{2}$

$\tan \theta = \frac{\sqrt{3}}{3}$

$\cos \theta = -\frac{\sqrt{2}}{2}$

$\frac{13\pi}{4} = 585 - 360 = 225$ Q3 RA=45

sin/csc +	sin/csc +
cos/sec -	cos/sec +
tan/cot -	tan/cot +

sin/csc -	sin/csc -
cos/sec -	cos/sec +
tan/cot +	tan/cot -