## **Exact Trig Values – Unit Circle Reference Angles**

θ°	θ	$\cos \theta$	$\sin\theta$	tanθ	cotθ	cscθ	secθ
0°	0	1	O	0	Und,	Und,	
30°	$\frac{\pi}{6}$	132	1 2	<del>√3</del> 2	13	2	273
45°	$\frac{\pi}{4}$	12	12 2	l	1	12	12
60°	$\frac{\pi}{3}$	1) 2	الم (م)	13/2	13/3	2/3	2
90°	$\frac{\pi}{2}$	0		und.	0		Und,

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## Positive or Negative by Quadrant

Quadrant	cosθ	sinθ	tanθ	cotθ	cscθ	secθ
I	_	+	+	+	+	+
II	1	+	/	-	+	-
III	Į	-	+	+	-	•
IV	+	~	_	_	_	+