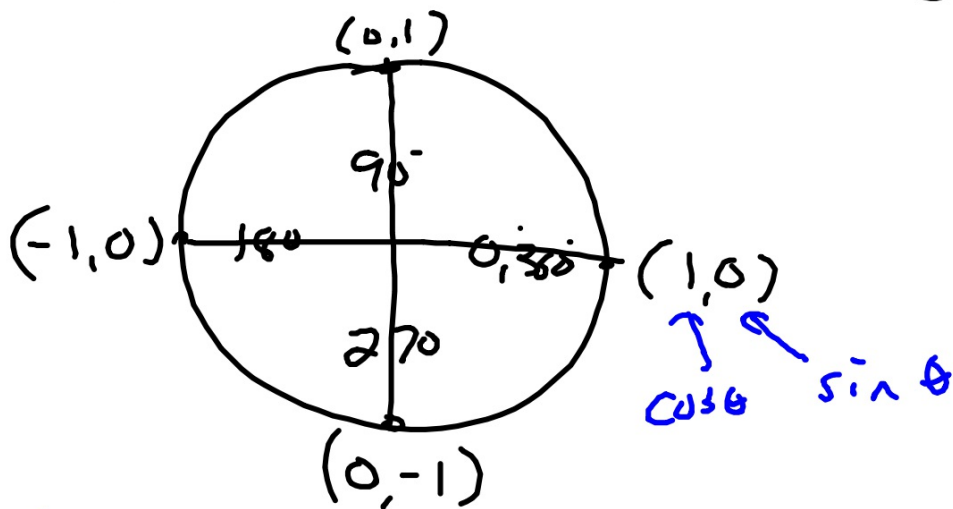
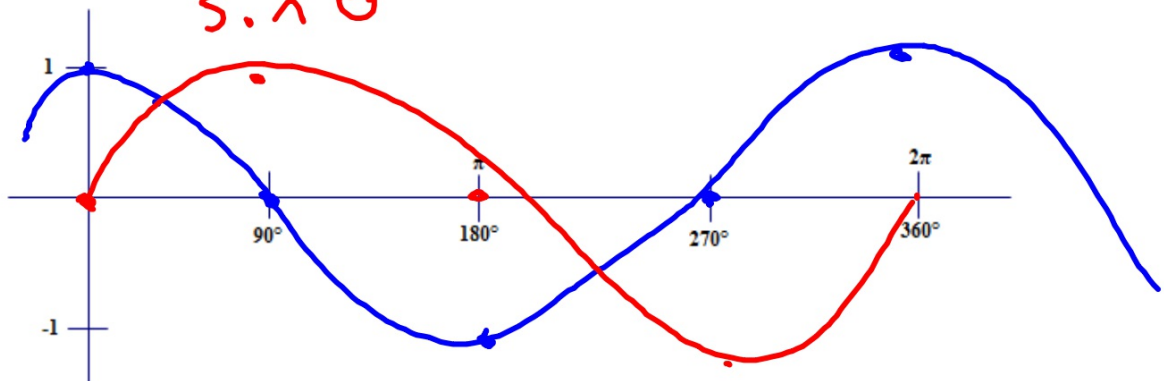


3-20-18 1st Trig

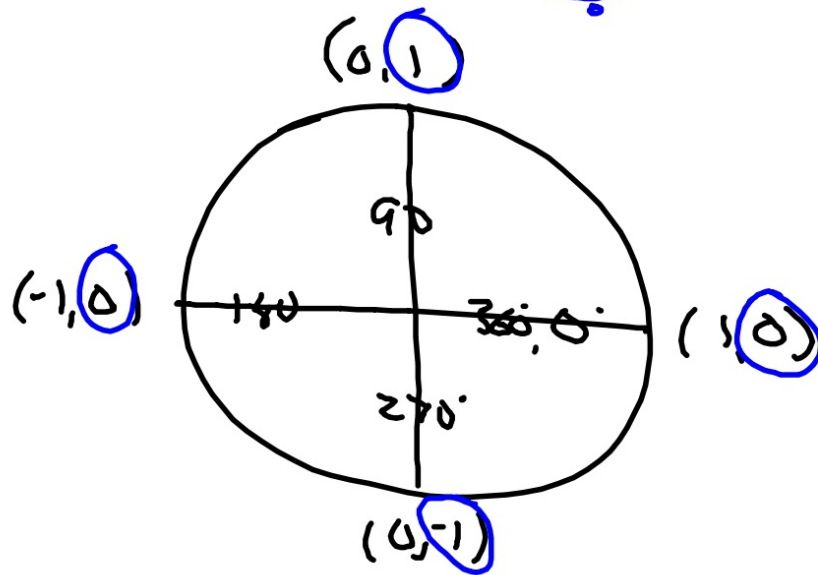
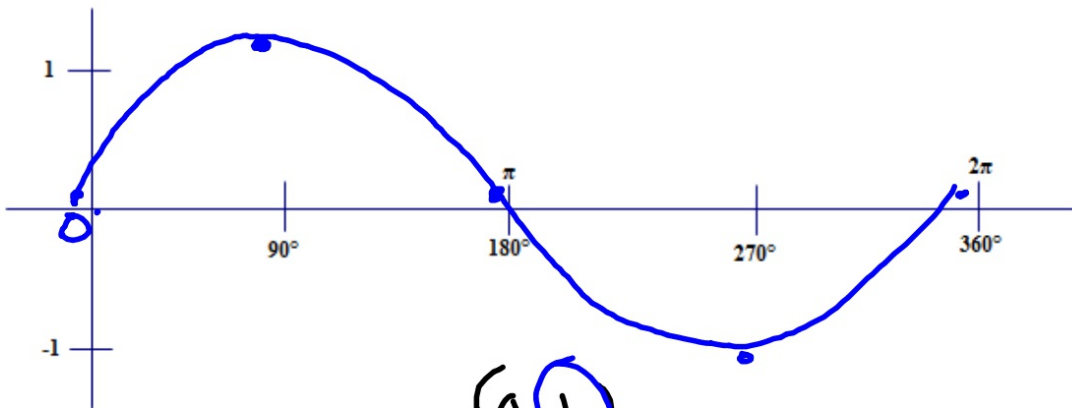


$\cos \theta$

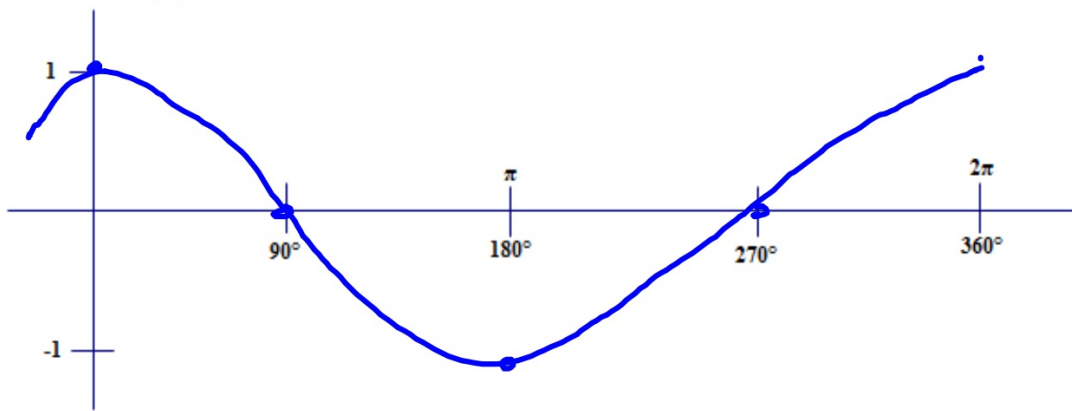
$\sin \theta$



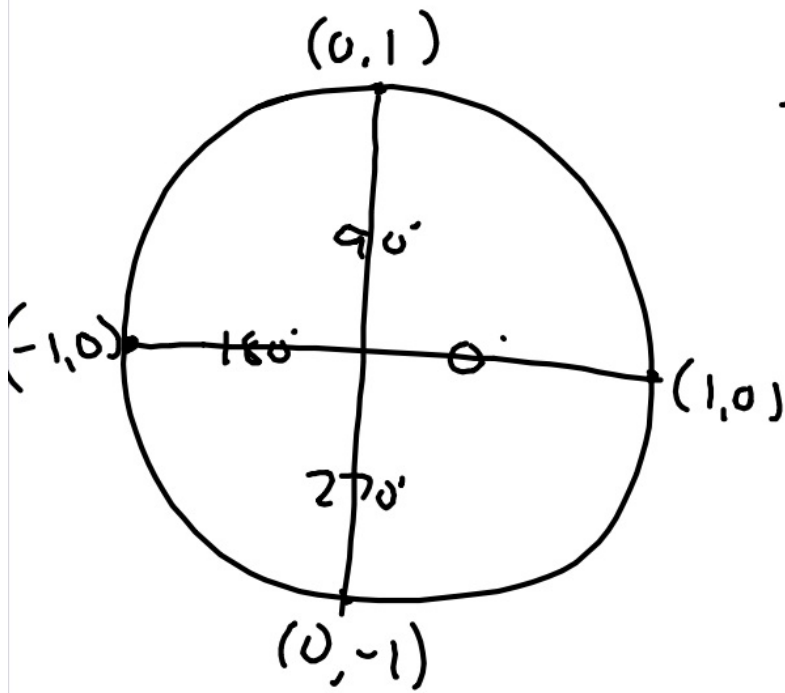
$\sin \theta$



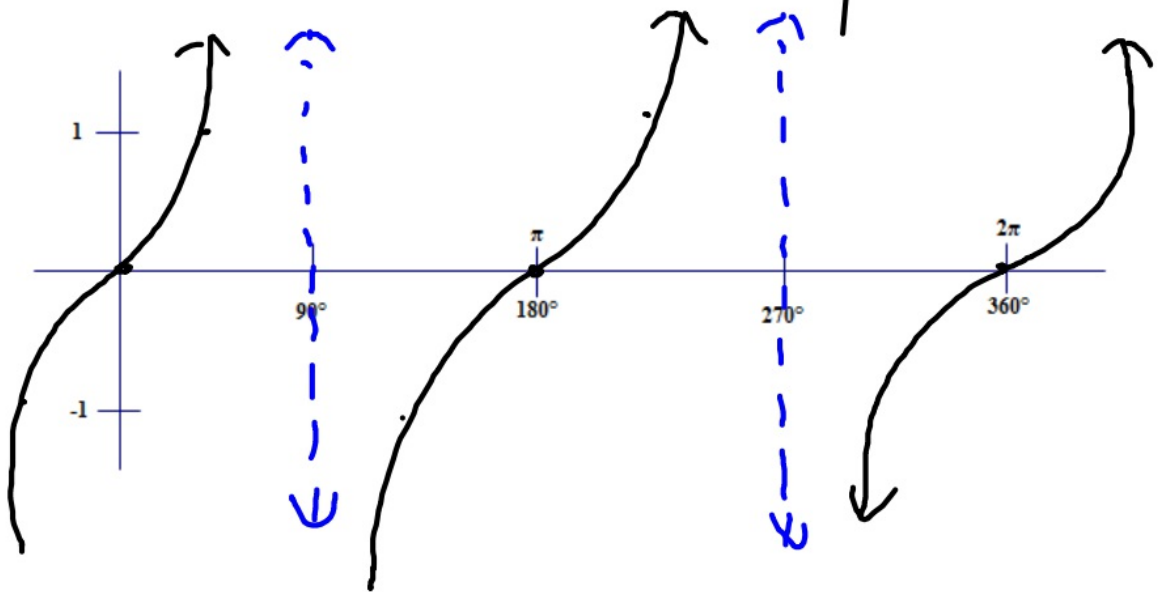
$\cos \theta$

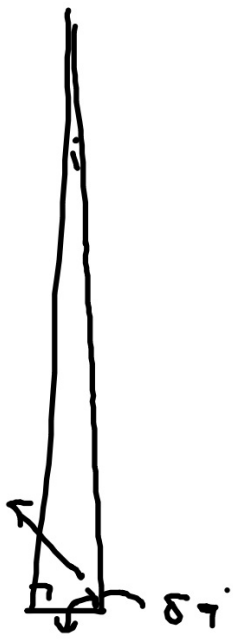


$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$



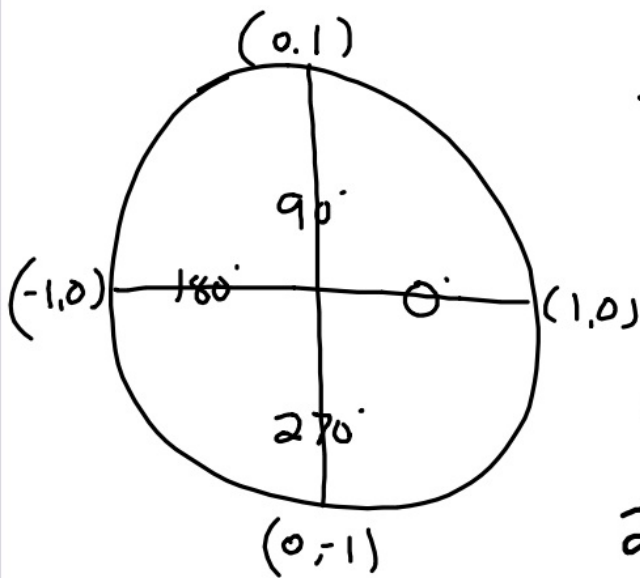
θ	$\tan \theta = \frac{\sin \theta}{\cos \theta}$
0°	$\frac{0}{1} = 0$
45°	$\frac{1}{1} = 1$
90°	$\frac{1}{0} = \text{und.}$
135°	$\frac{1}{-1} = -1$
180°	$\frac{0}{-1} = 0$
225°	$\frac{-1}{-1} = 1$
270°	$\frac{-1}{0} = \text{und.}$
315°	$\frac{0}{1} = 0$
360°	$\frac{0}{1} = 0$



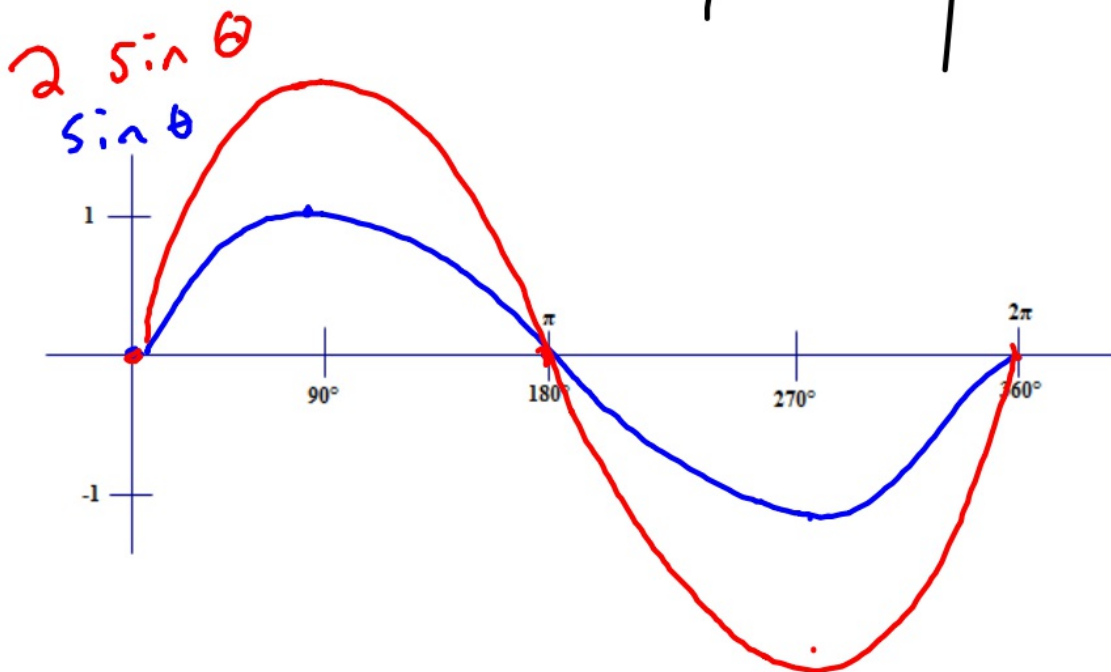


$$\tan \theta = \frac{\text{opp.}}{\text{adj.}} = \frac{\text{huge}}{\text{small}}$$

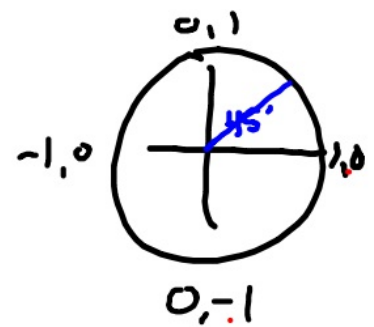
3-20-18 3rd Trig



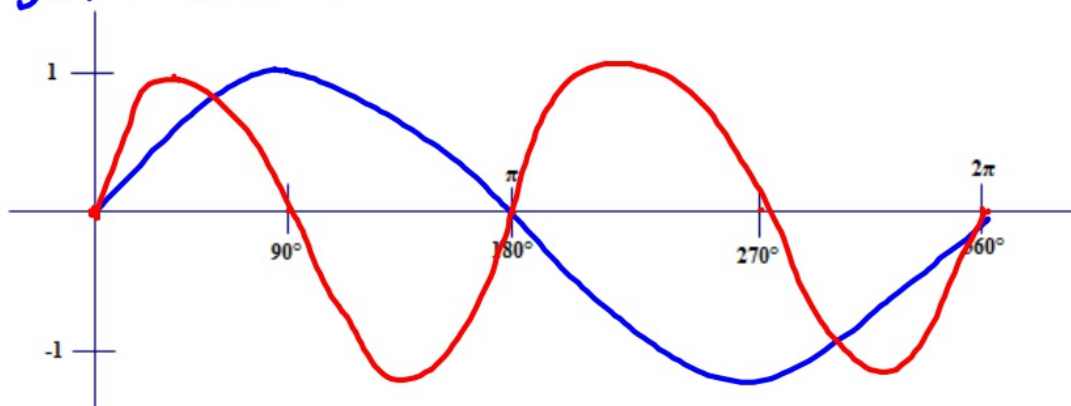
θ	$\sin \theta$	$2 \cdot \sin \theta$
0°	0	0
90°	1	2
180°	0	0
270°	-1	-2
360°	0	0



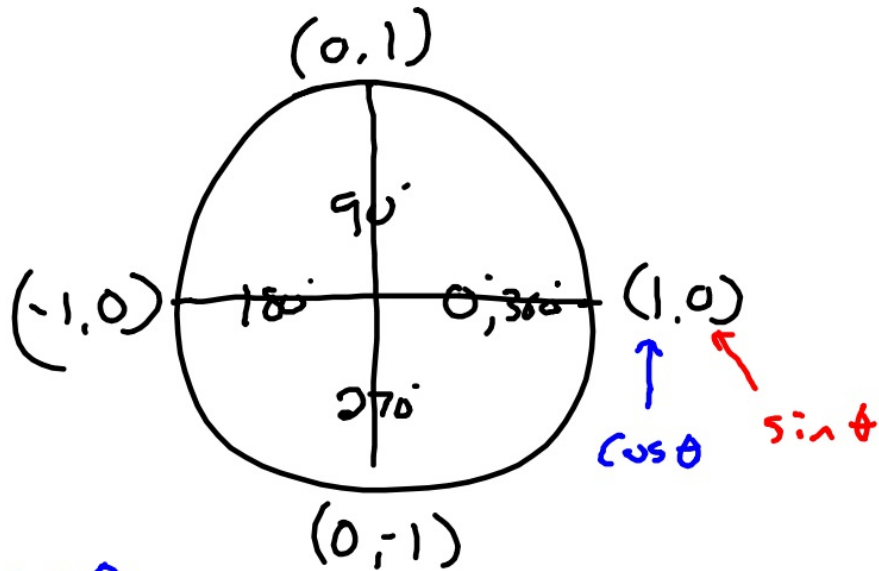
θ	$\sin 2\theta$
0°	$\sin 2 \cdot 0 = \sin 0 = 0$
90°	$\sin 2 \cdot 90 = \sin 180 = 0$
180°	$\sin 2 \cdot 180 = \sin 360 = 0$
45°	$\sin 2 \cdot 45 = \sin 90 = 1$



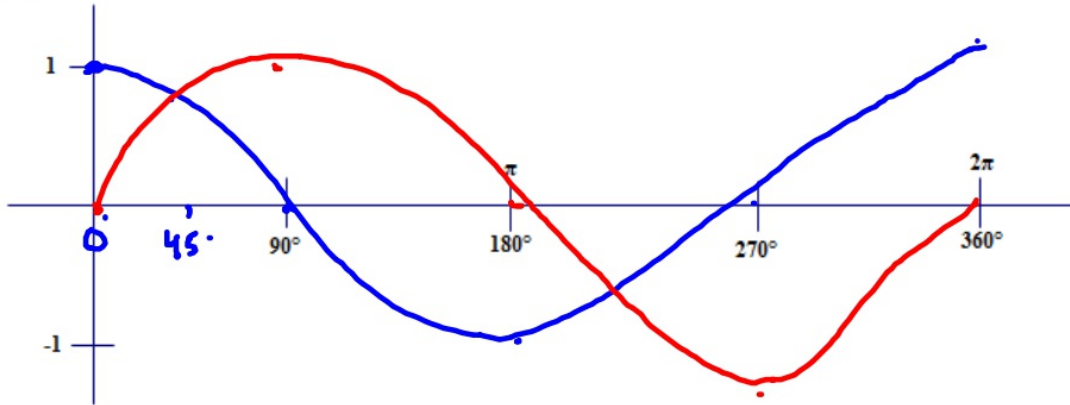
$\sin \theta$ $\sin 2\theta$



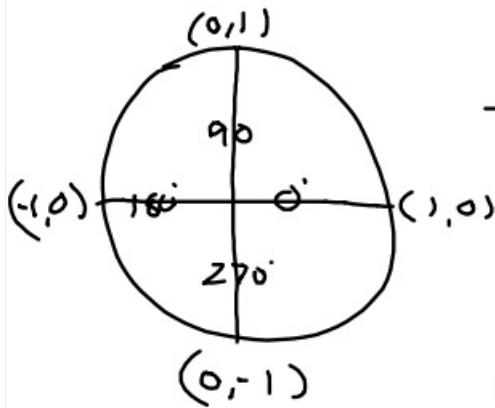
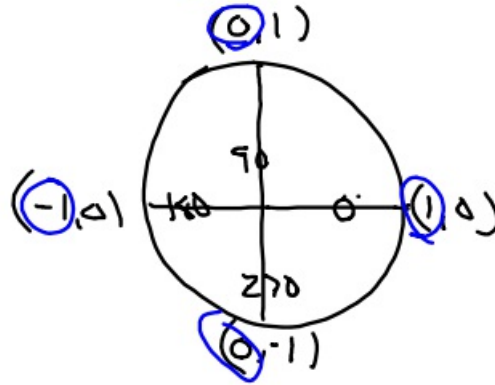
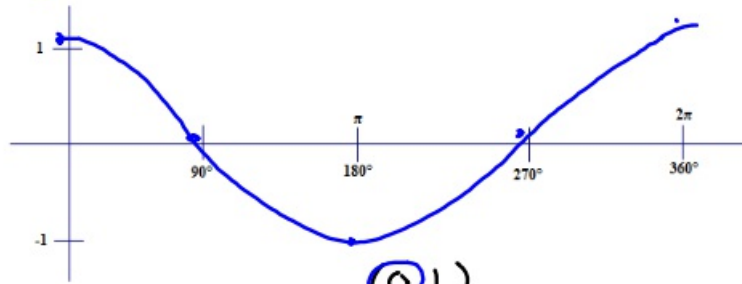
3-20-18 4th



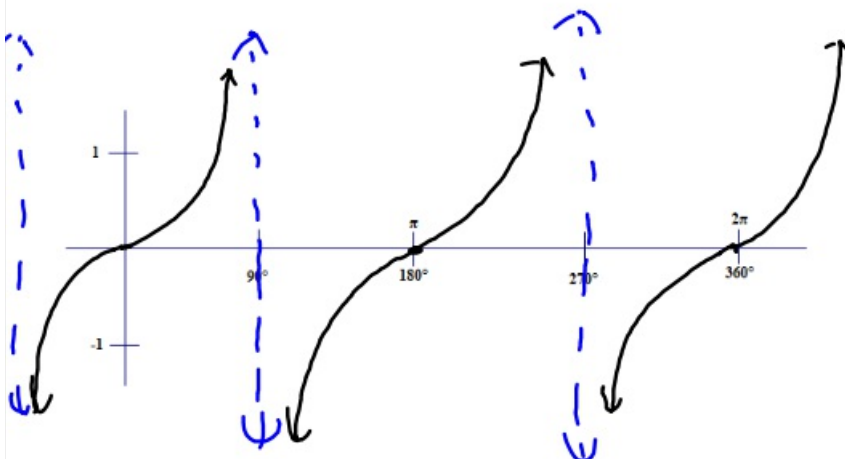
$\cos \theta$



cos θ



θ	$\tan \theta = \frac{\sin \theta}{\cos \theta}$
0°	$\frac{0}{1} = 0$
90°	$\frac{1}{0} = \text{undefined}$
180°	$\frac{0}{-1} = 0$
270°	$\frac{-1}{0} = \text{und.}$
360°	$\frac{0}{1} = 0$



inL