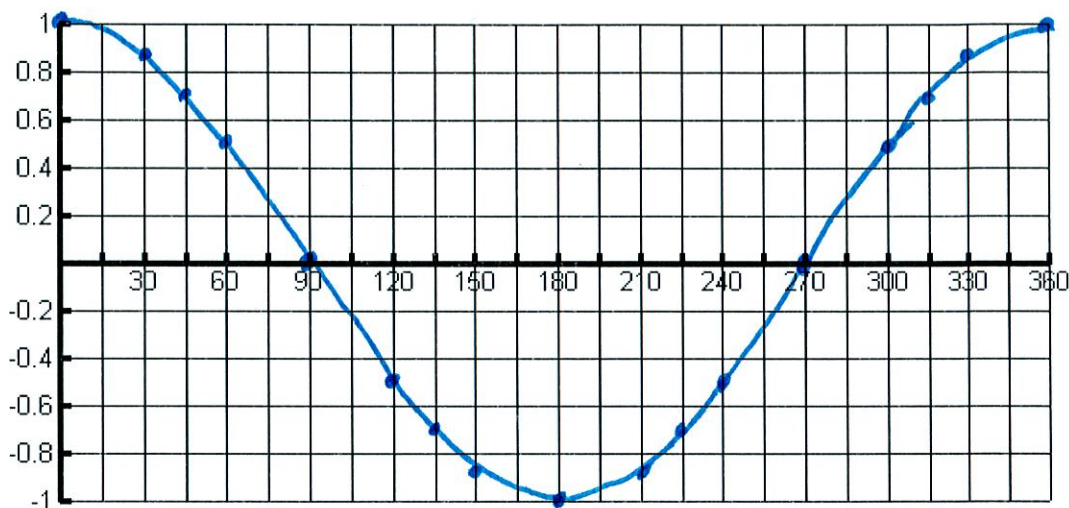


Graphing the cosine/sin Functions

Make sure you are in degree mode. Use your table feature of your calculator to find the answer for each of the following values. Then connect the dots smoothly (no sharp turns). You have now graphed the cosine and sine functions.

1. $y = \cos x$

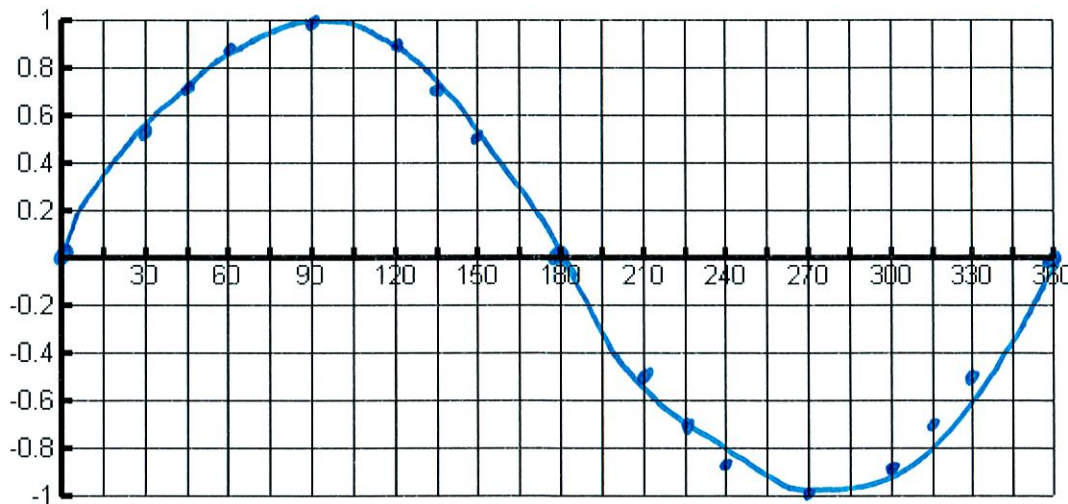
X	Y
0°	1
30°	$\sqrt{3}/2 \approx .86$
45°	$\sqrt{2}/2 \approx .7$
60°	$1/2 = .5$
90°	0
120°	$-1/2 = -.5$
135°	$-\sqrt{2}/2 \approx -.7$
150°	$-\sqrt{3}/2 \approx -.86$
180°	-1
210°	$-\sqrt{3}/2 \approx -.86$
225°	$-\sqrt{2}/2 \approx -.7$
240°	$-1/2 = -.5$
270°	0
300°	$1/2 = .5$
315°	$\sqrt{2}/2 \approx .7$
330°	$\sqrt{3}/2 \approx .86$
360°	1



We graphed one period of $\cos x$

2. $y = \sin x$

X	Y
0°	0
30°	$1/2 = .5$
45°	$\sqrt{2}/2 \approx .7$
60°	$\sqrt{3}/2 \approx .86$
90°	1
120°	$\sqrt{3}/2 \approx .86$
135°	$\sqrt{2}/2 \approx .7$
150°	$1/2 = .5$
180°	0
210°	$-1/2 = -.5$
225°	$-\sqrt{2}/2 \approx -.7$
240°	$-\sqrt{3}/2 \approx -.86$
270°	-1
300°	$-\sqrt{3}/2 \approx -.86$
315°	$-\sqrt{2}/2 \approx -.7$
330°	$-1/2 = -.5$
360°	0



We graphed 1 period of $\sin x$