

## The Graphs of Sine and Cosine

1. Complete each table of values using your calculator. (bonus – see if you can fill a few values in such as 0, 90, 180 etc, without a calculator!)

x	y = sin x
0	
15	
30	
45	
60	
75	
90	
105	
120	
135	
150	
165	
180	
195	
210	
225	
240	
255	
270	
285	
300	
315	
330	
345	
360	

x	y = cos x
0	
15	
30	
45	
60	
75	
90	
105	
120	
135	
150	
165	
180	
195	
210	
225	
240	
255	
270	
285	
300	
315	
330	
345	
360	

2. Use the table above to graph each function. Each graph includes a scale from 0 to 720. Why is it not necessary to calculate points past 360?

3. Find the key properties for the sine graph below.

Equation:  $f(x) = \sin x$

Period:

Equation of Axis:

Amplitude:

Max:

Min:

Domain:

Range:

4. Find the key properties of the cosine graph below.

Equation:  $f(x) = \cos x$

Period:

Equation of Axis:

Amplitude:

Max:

Min:

Domain:

Range:



