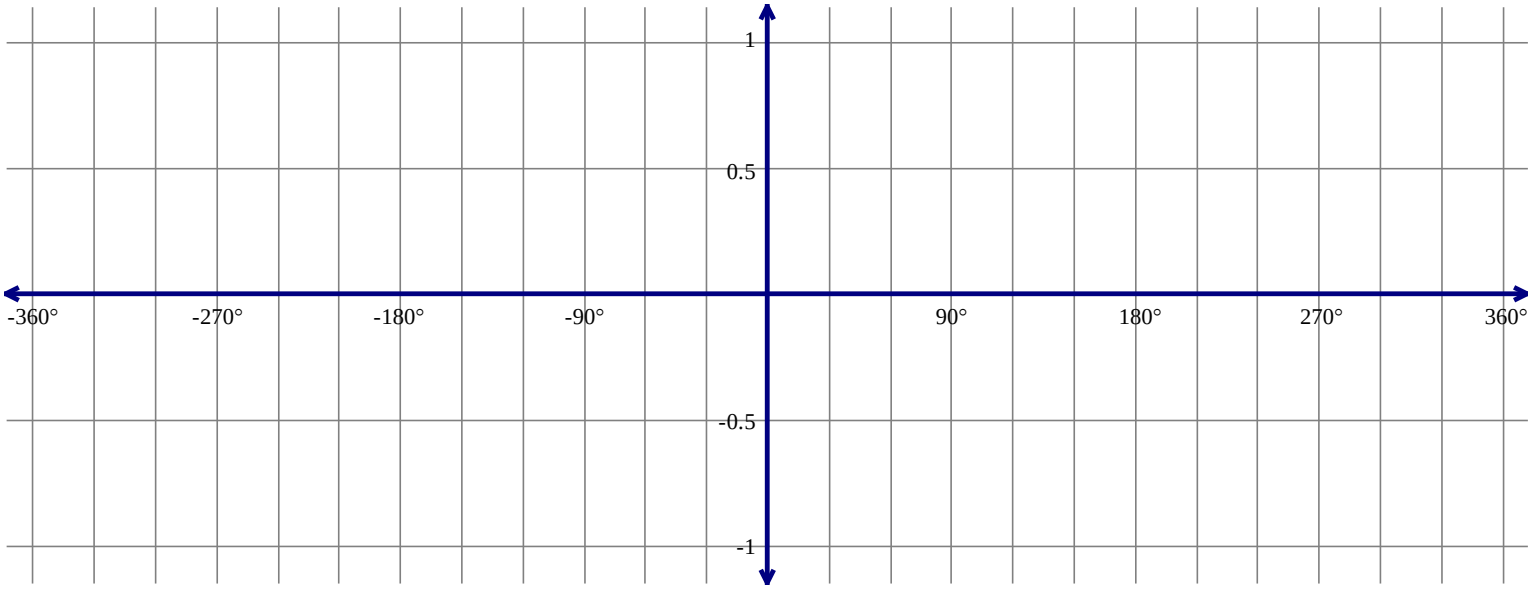
Algebra 2
Graphing Sine and Cosine

Name: _____
Period: _____

Complete the table with the output being the y-coordinate around the Unit Circle.

x	0	30°	45°	60°													
$f(x)=\sin x$	0	0.5	0.707	0.866													

Using the table, plot the points and connect them. Extend your graph to the left to fill the entire grid.



What is the domain of $f(x)=\sin x$?

What is the amplitude of $f(x)=\sin x$?

What is the range of $f(x)=\sin x$?

What is the period of $f(x)=\sin x$?

What is the y-intercept?

What is the equation of the axis of $f(x)=\sin x$?

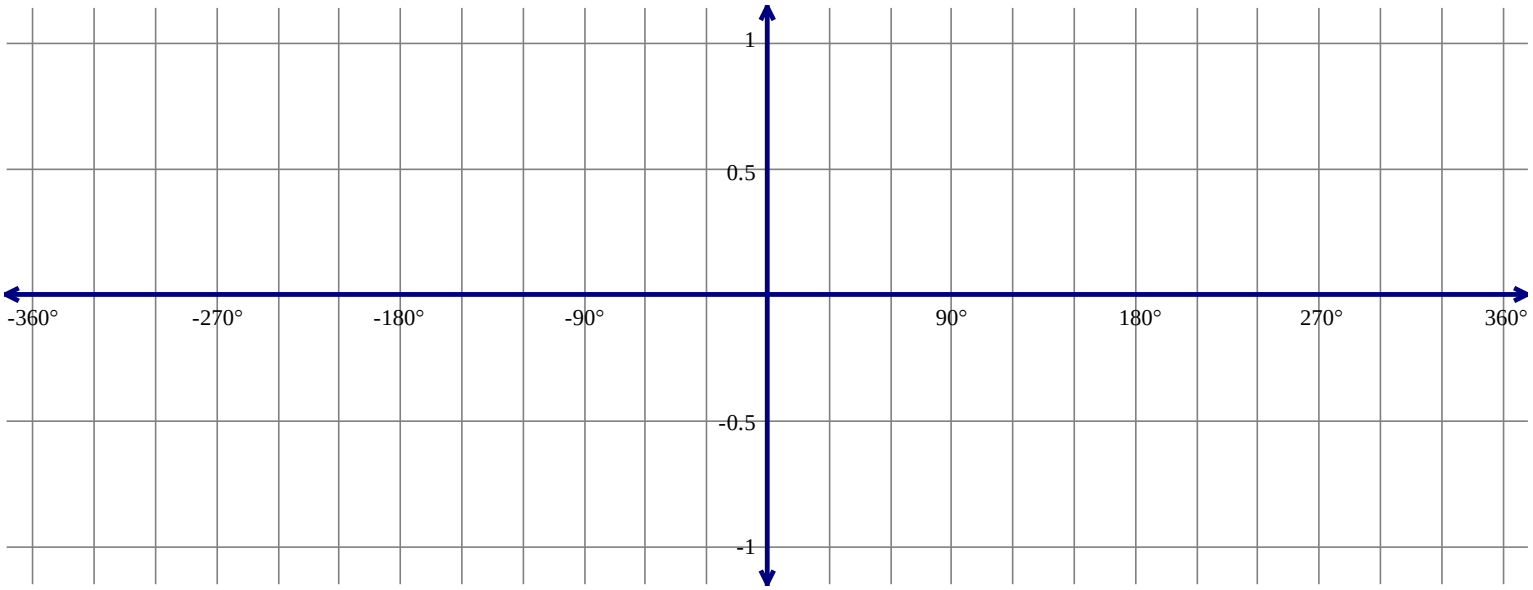
Where does the graph of $f(x)=\sin x$ begin? Where does it go from there?

Now label your table and your graph with radians!

Complete the table with the output being the x-coordinate around the Unit Circle.

x	0	30°	45°	60°													
$g(x)=\cos x$	1	0.866	0.707	0.5													

Using the table, plot the points and connect them. Extend your graph to the left to fill the entire grid.



What is the domain of $g(x)=\cos x$?

What is the amplitude of $g(x)=\cos x$?

What is the range of $g(x)=\cos x$?

What is the period of $g(x)=\cos x$?

What is the y-intercept?

What is the equation of the axis of $g(x)=\cos x$?

Where does the graph of $g(x)=\cos x$ begin? Where does it go from there?

Now label your table and your graph with radians!