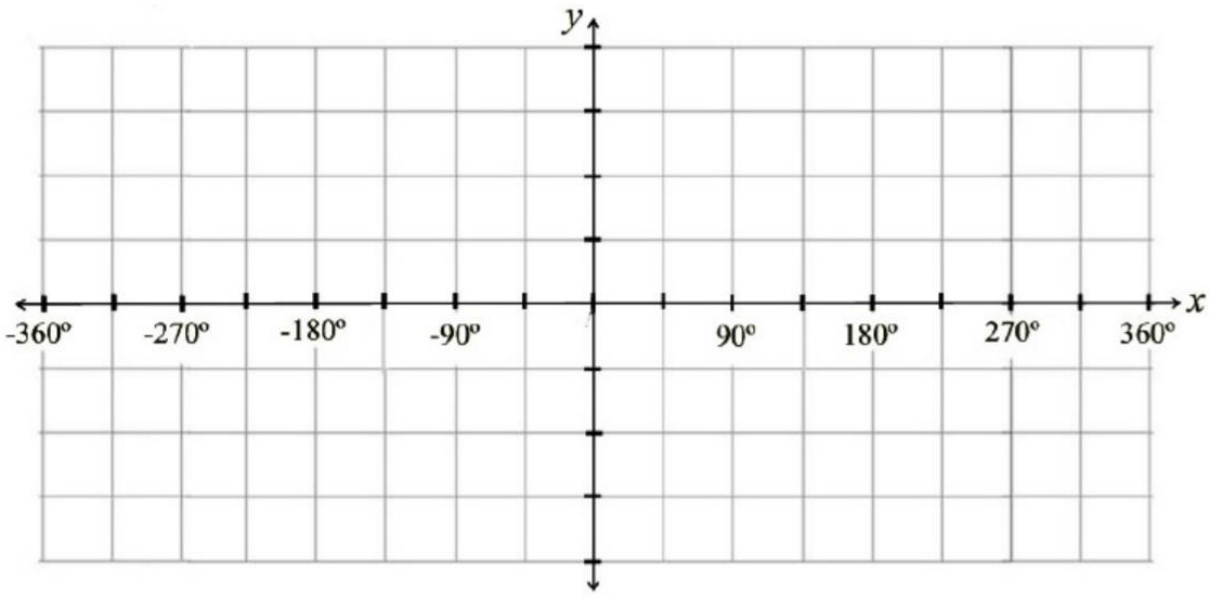
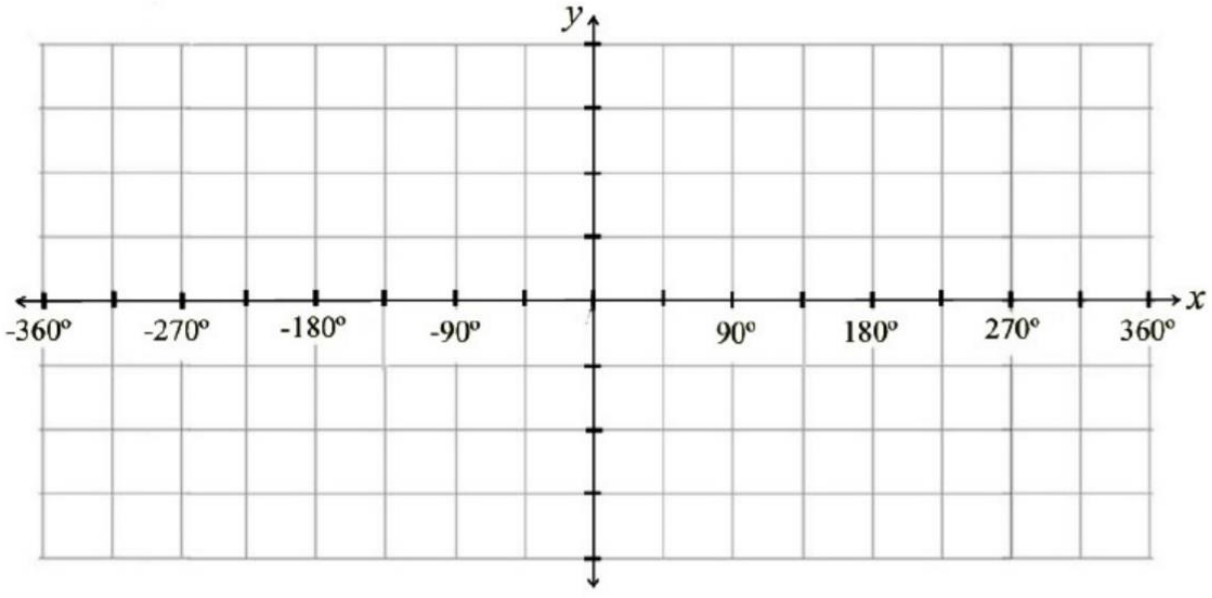
Warm-Up

Accurately Graph the following functions using a different colour for each, $-360 \leq x \leq 360$ AND State the Transformations using the Correct Terminology.

$f(x) = \sin x$ $f(x) = 2\sin x$ $f(x) = \sin x - 3$ $f(x) = 2\sin x + 2$



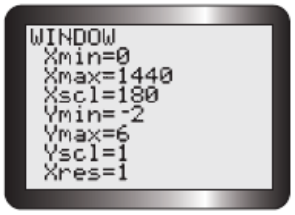
$f(x) = \cos x$ $f(x) = -\cos x$ $f(x) = -3\cos x$ $f(x) = -3\cos x\text{-}1$



You must complete the Video Lesson First

Try On Your Own #1

5. Using a graphing calculator in DEGREE mode, graph each function. Use the WINDOW settings shown. After you have the graph, state the period, the equation of the axis, and the amplitude for each function.



a) $f(x) = 2\sin x + 3$
b) $f(x) = 3\sin x + 1$
c) $f(x) = \sin(0.5x) + 2$
d) $f(x) = \sin(2x) - 1$
e) $f(x) = 2\sin(0.25x)$
f) $f(x) = 3\sin(0.5x) + 2$

Equation	Period	Equation of Axis	Amplitude
$f(x) = 2\sin x + 3$			
$f(x) = 3\sin x + 1$			
$f(x) = \sin(0.5x) + 3$			
$f(x) = \sin(2x) + 3$			
$f(x) = 2\sin(0.25x) + 3$			
$f(x) = 3\sin(0.5x) + 2$			