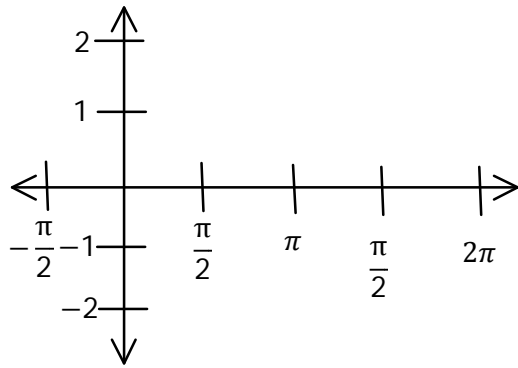


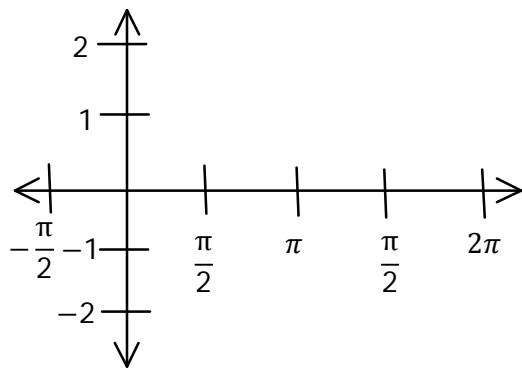
C12 - 5.1 - Sin Cos and Tan Graphs HW

Draw $y = \sin x$



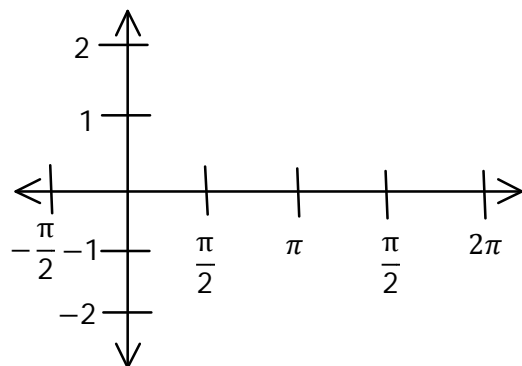
x	y
0	
$\frac{\pi}{2}$	
π	
$\frac{3\pi}{2}$	
2π	

Draw $y = \cos x$



x	y
0	
$\frac{\pi}{2}$	
π	
$\frac{3\pi}{2}$	
2π	

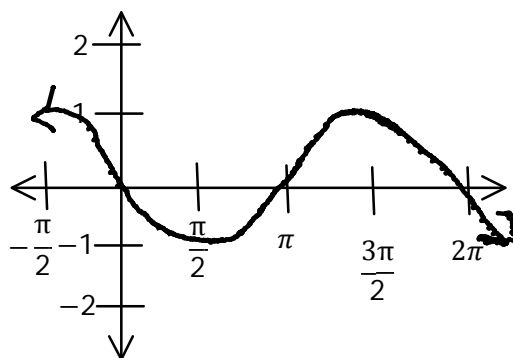
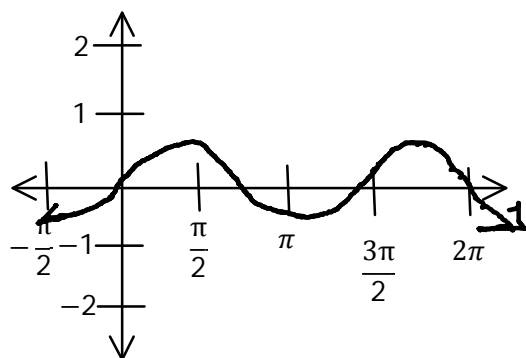
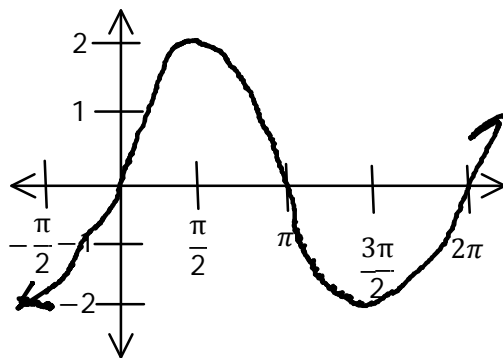
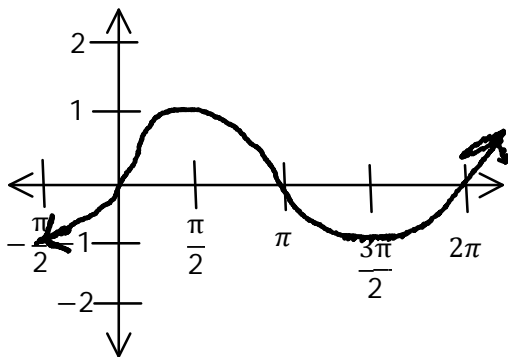
Draw $y = \tan x$



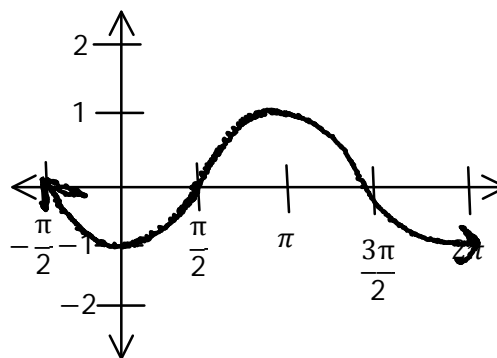
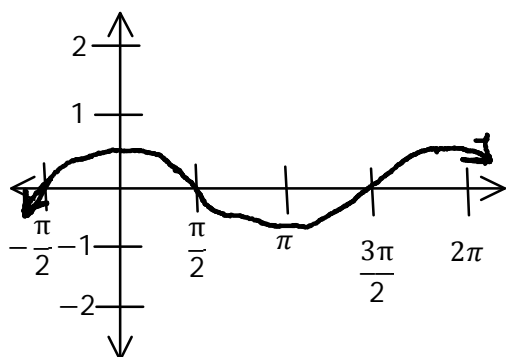
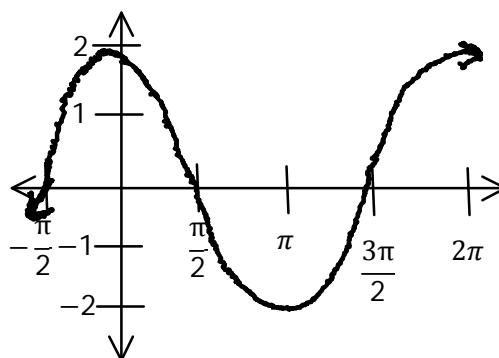
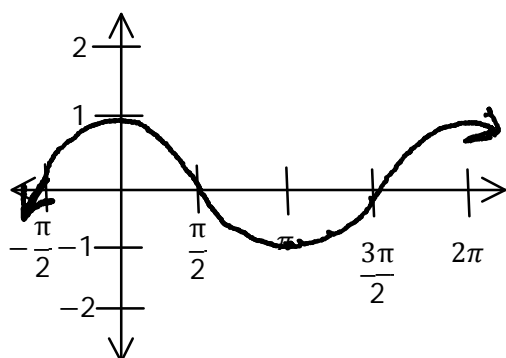
x	y
0	
$\frac{\pi}{4}$	
$\frac{\pi}{2}$	
$\frac{3\pi}{4}$	
π	

C12 - 5.2 - "a" Find Equation WS

Determine a , and the equation $y = a \sin x$

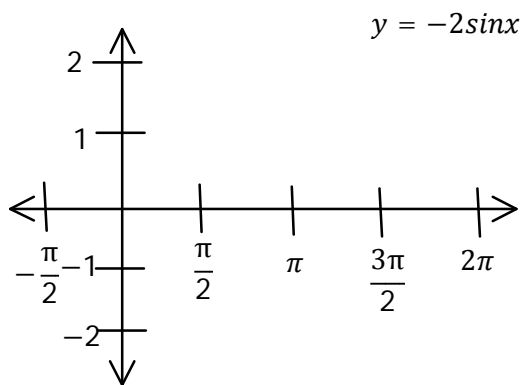
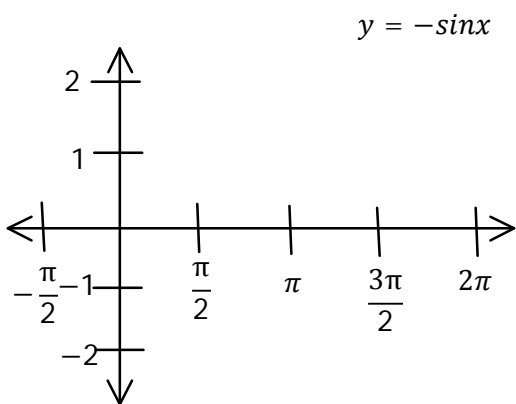
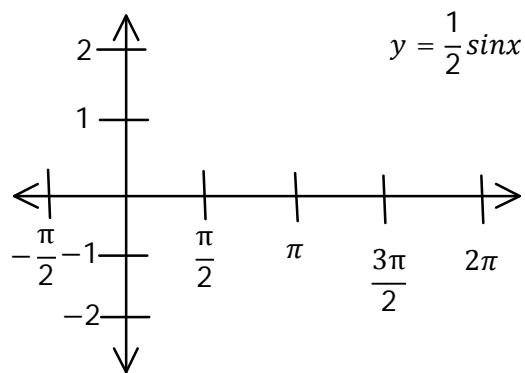
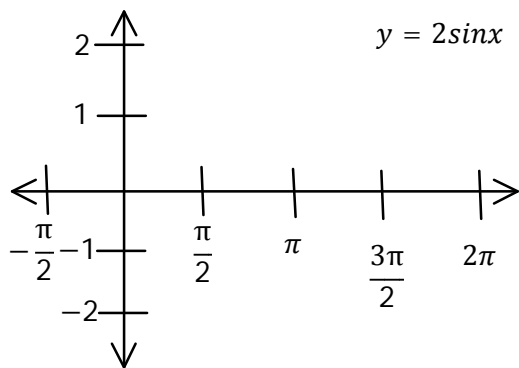


Determine a , and the equation $y = a \cos x$

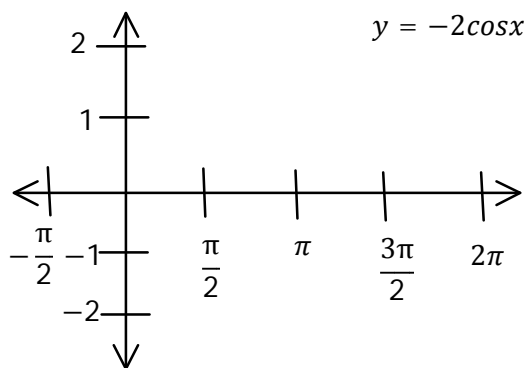
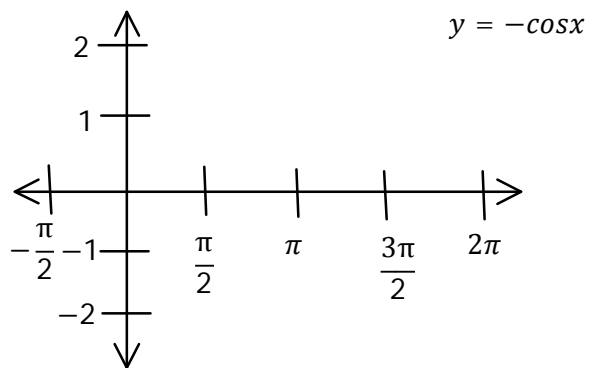
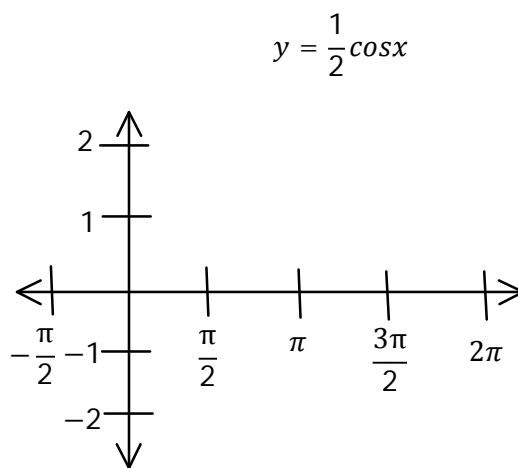
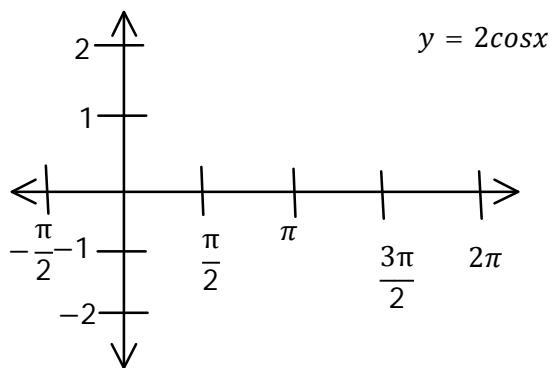


C12 - 5.2 - "a" Graphing WS

Determine a, and graph the equation $y = a \sin x$

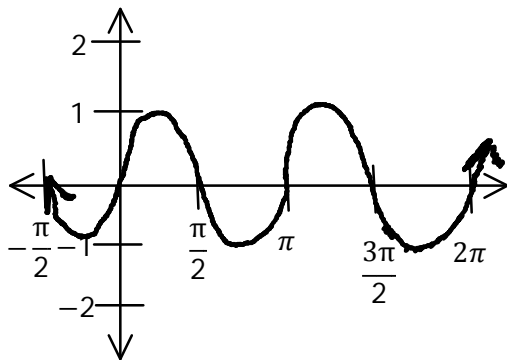


Determine a, and graph the equation $y = a \cos x$

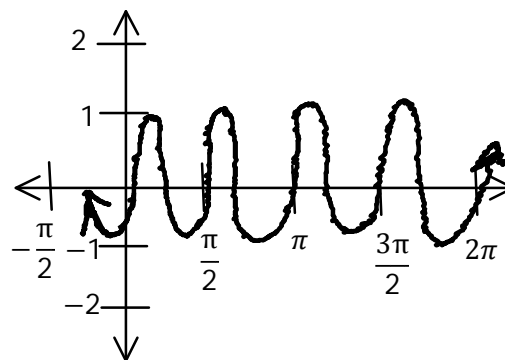
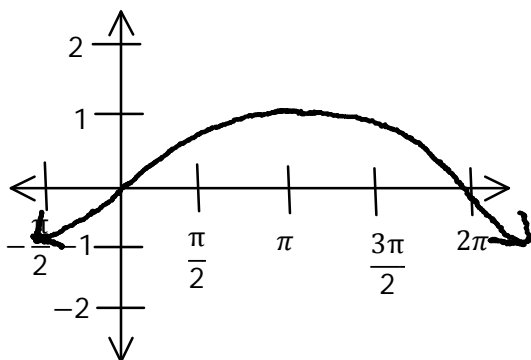
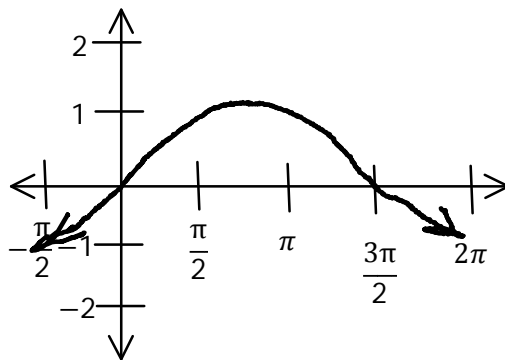


C12 - 5.2 - "b" Find Equation WS

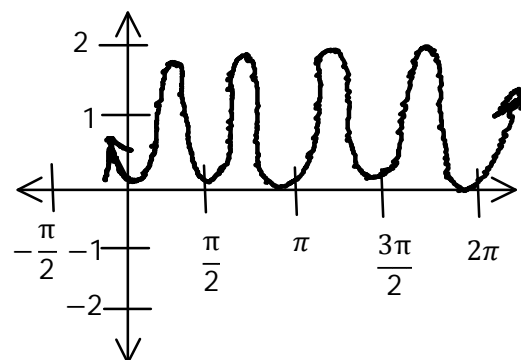
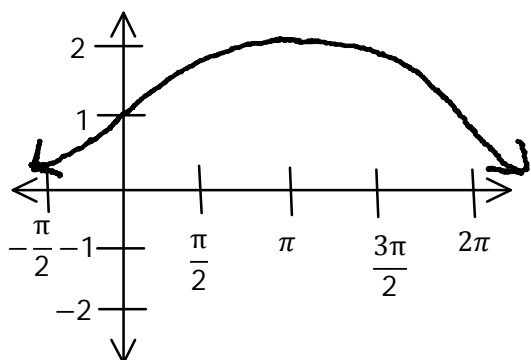
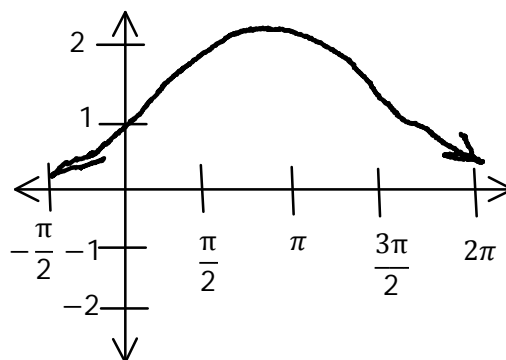
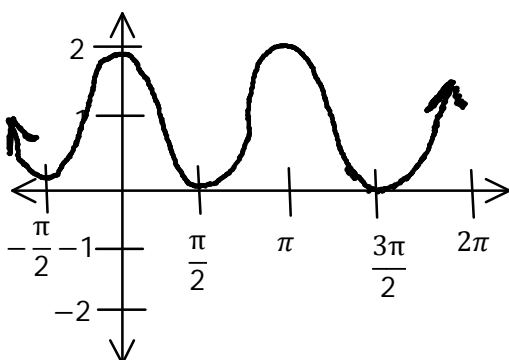
Determine b , and the equation $y = \sin bx$



$$\begin{aligned} p &= \frac{2\pi}{b} \\ b &= \frac{2\pi}{p} \\ b &= \end{aligned}$$

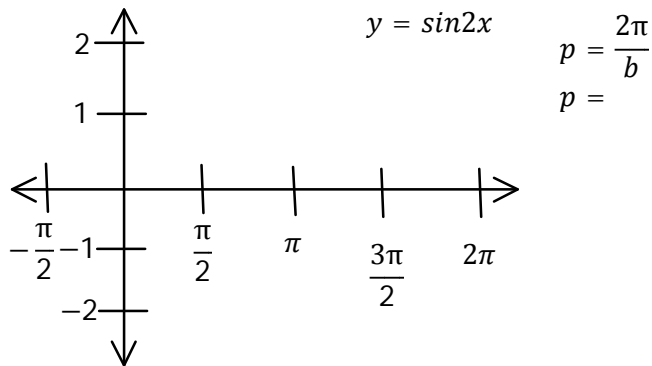


Determine b , and the equation $y = \cos bx$

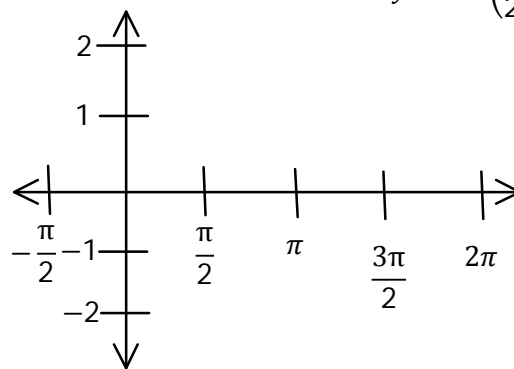


C12 - 5.2 - "b" Graphing WS

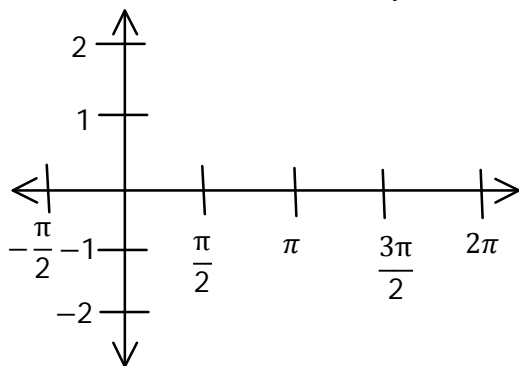
Determine b, and graph the equation $y = \sin bx$



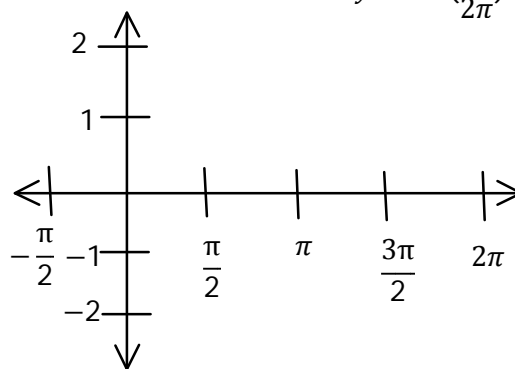
$$y = \sin\left(\frac{1}{2}\right)x$$



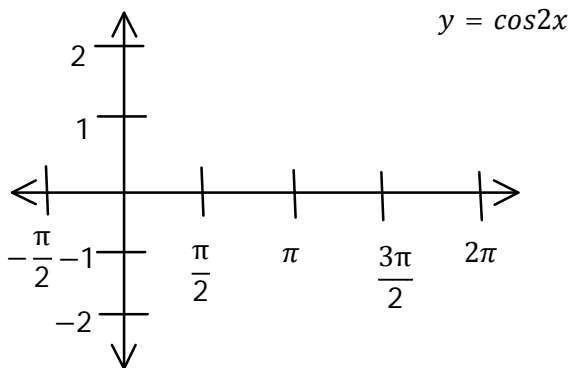
$$y = \sin 3x$$



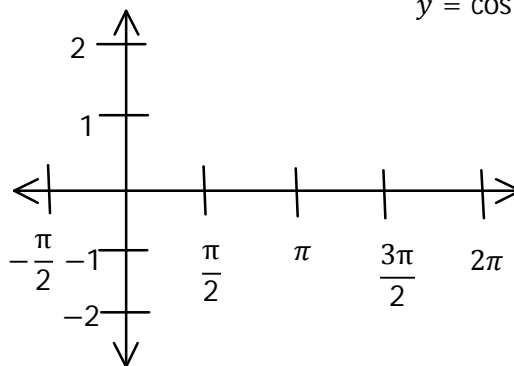
$$y = \sin\left(\frac{1}{2\pi}\right)x$$



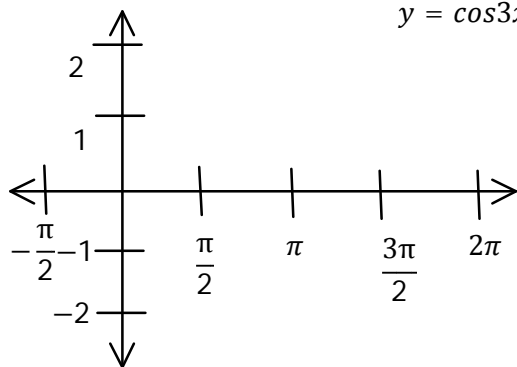
Determine b, and graph the equation $y = \cos bx$



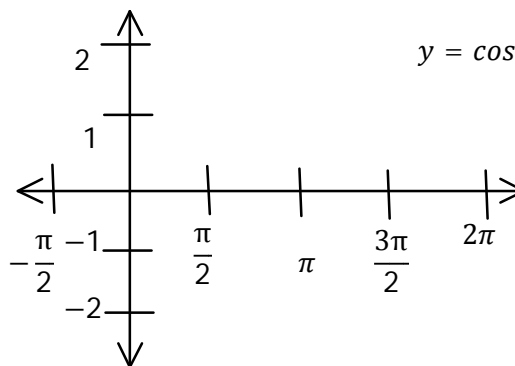
$$y = \cos\left(\frac{1}{2}\right)x$$



$$y = \cos 3x$$

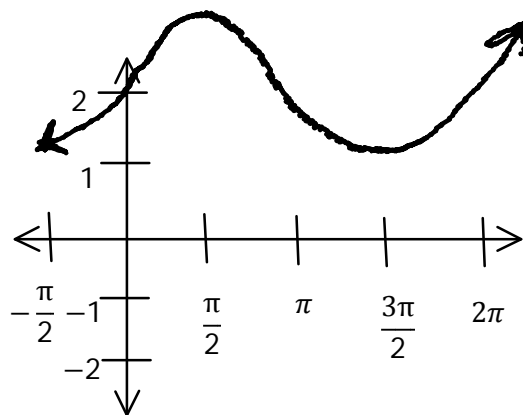
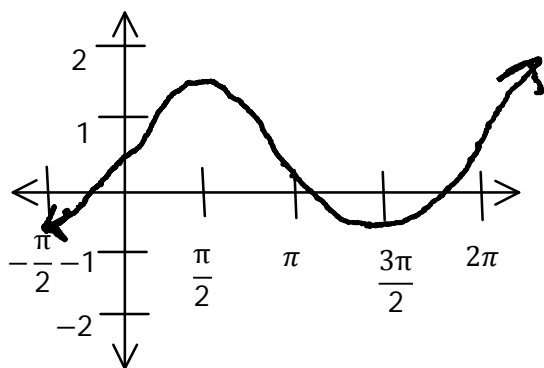
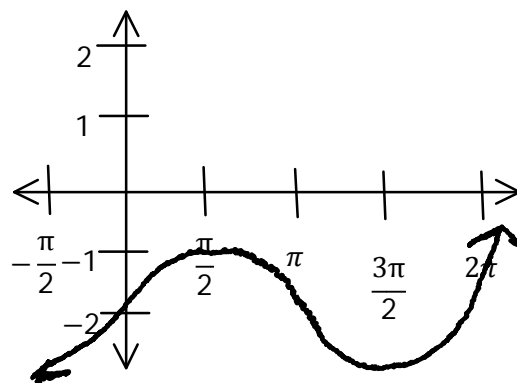
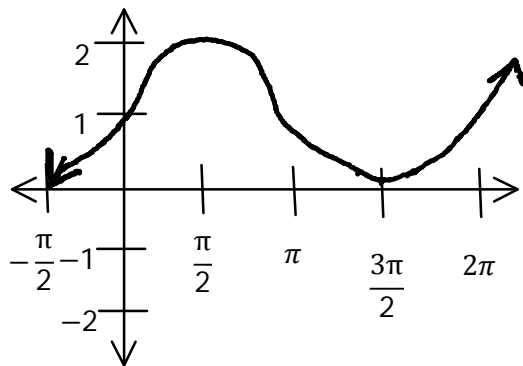


$$y = \cos\left(\frac{1}{2\pi}\right)x$$

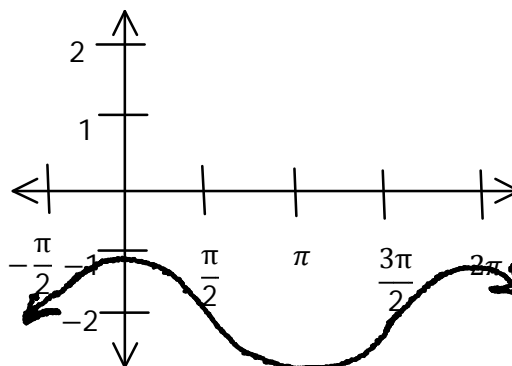
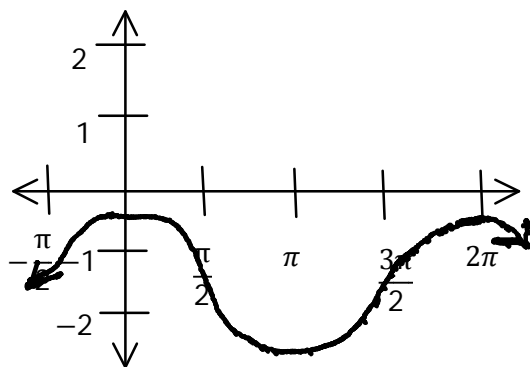
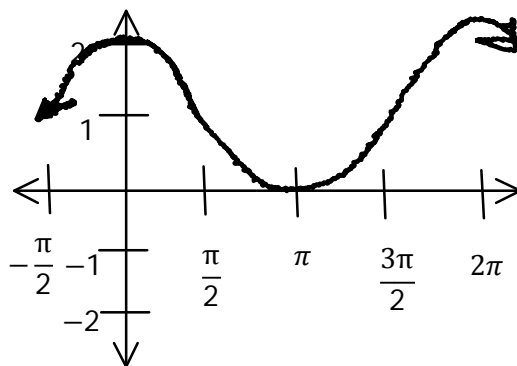
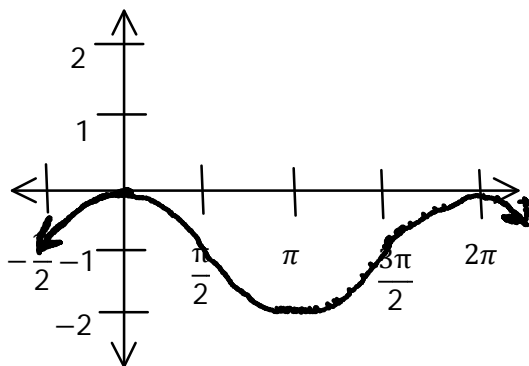


C12 - 5.3 - "d" Find Equation WS

Determine b , and the equation $y = \sin x + d$

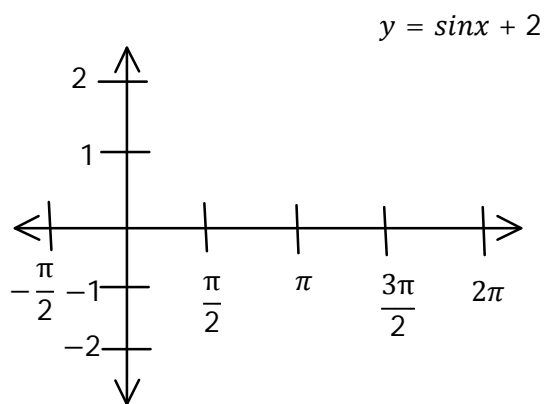
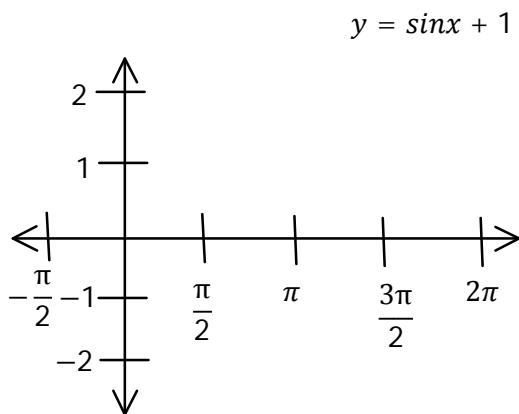
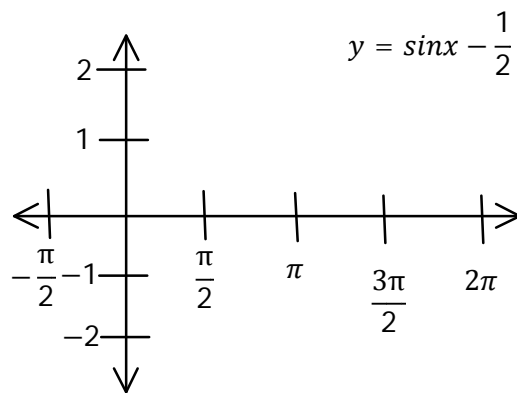
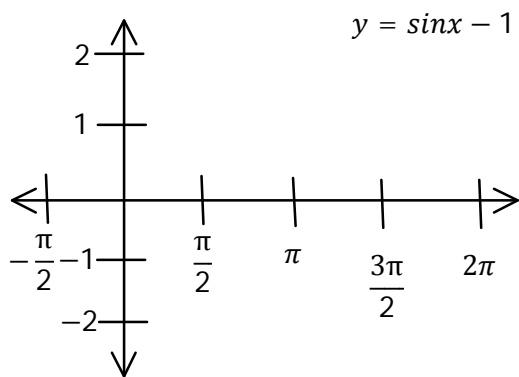


Determine b , and the equation $y = \cos x + d$

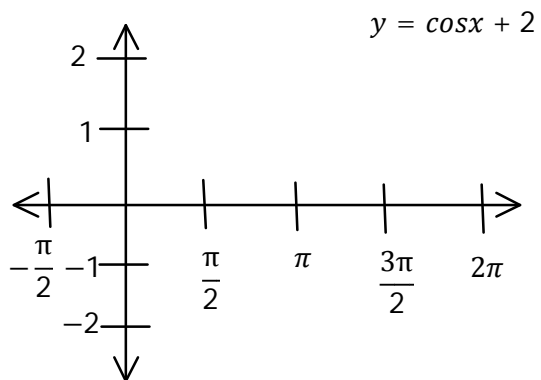
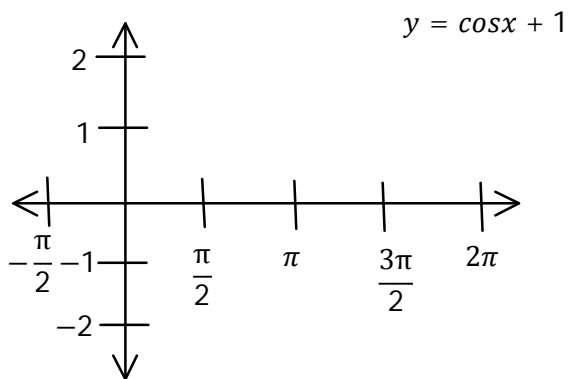
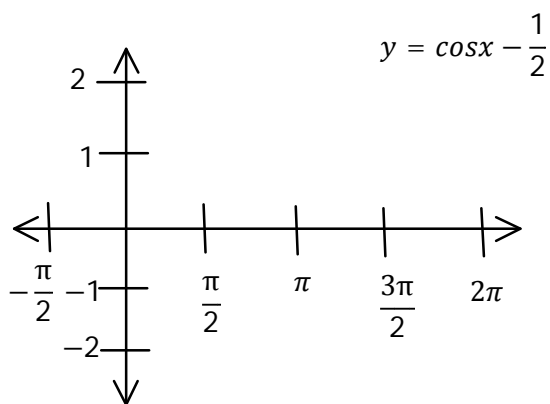
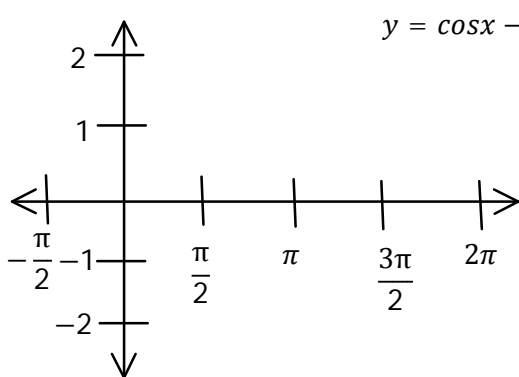


C12 - 5.3 - "d" Graphing WS

Determine b, and graph the equation $y = \sin x + d$

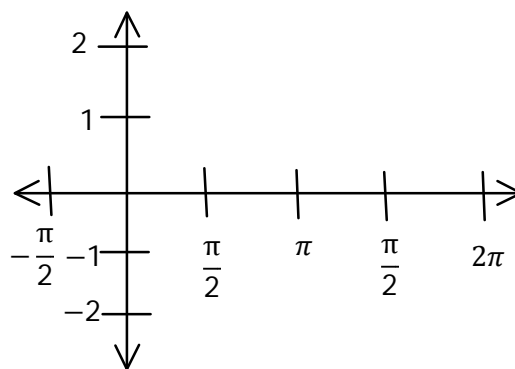
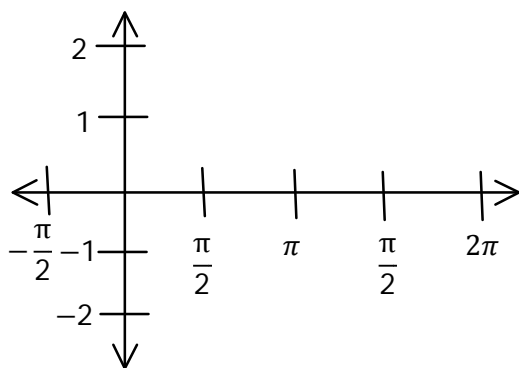
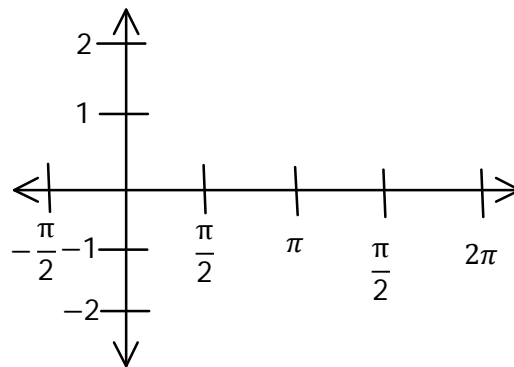
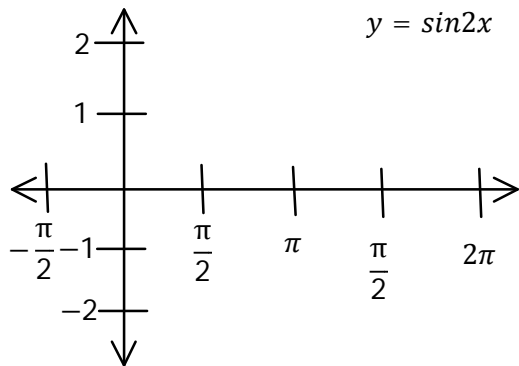


Determine b, and graph the equation $y = \cos x + d$

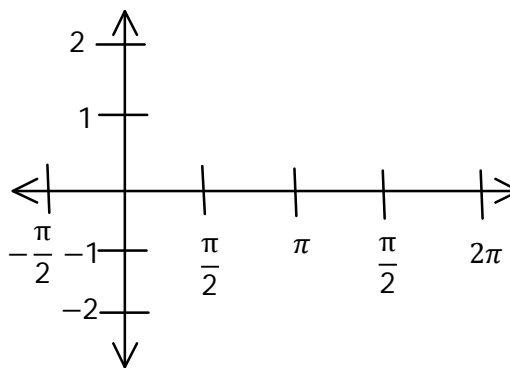
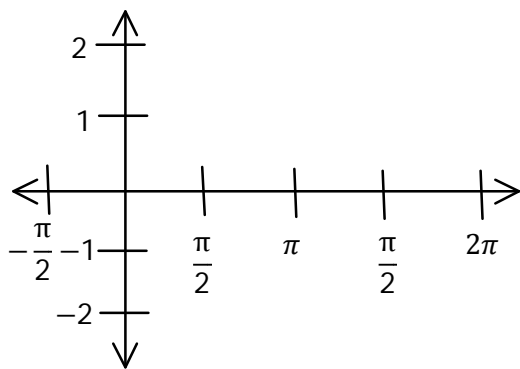
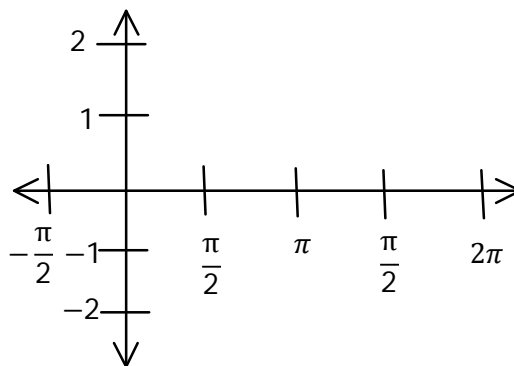
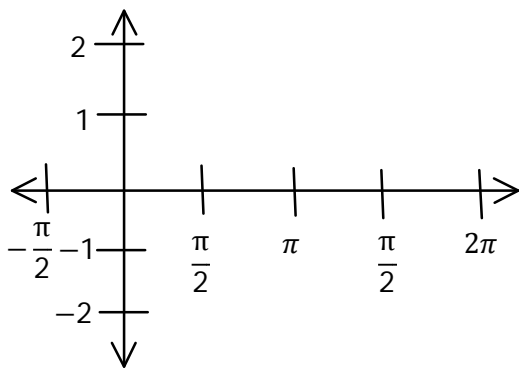


C12 - 5.3 - "c" Find Equation WS

Determine c, and graph the equation $y = \sin(x \pm c)$

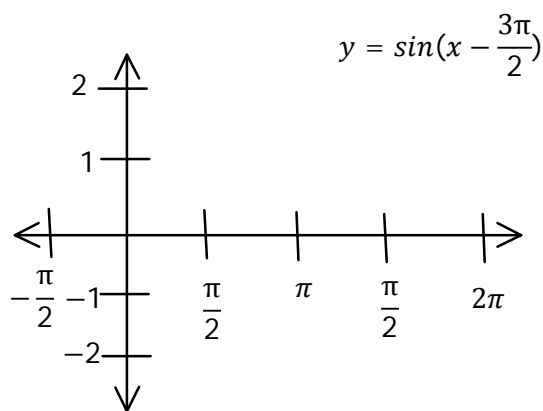
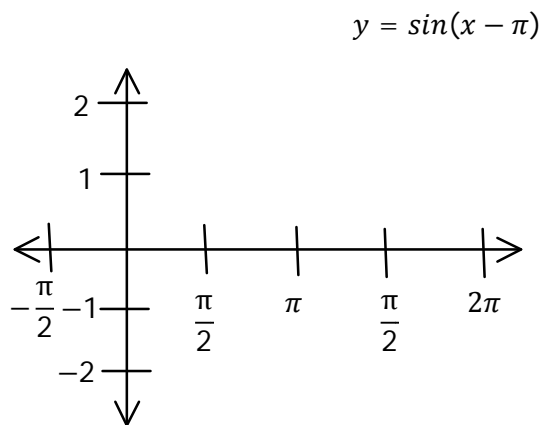
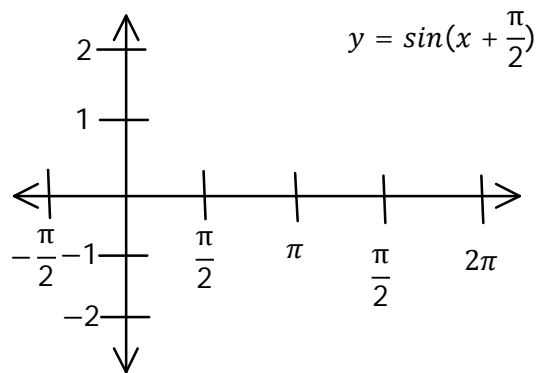
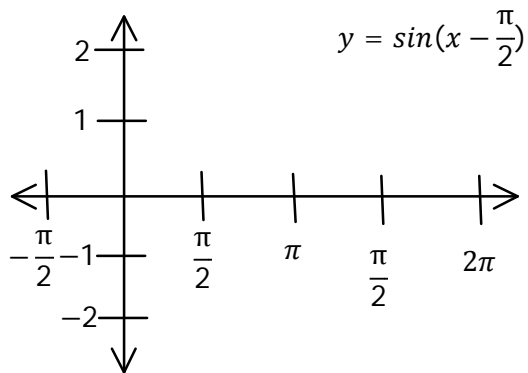


Determine b, and graph the equation $y = \cos(x \pm c)$

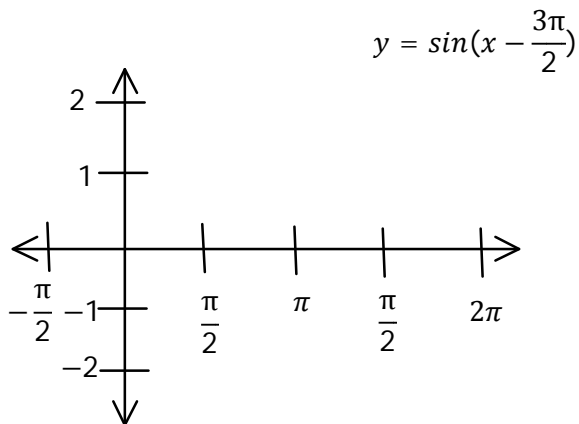
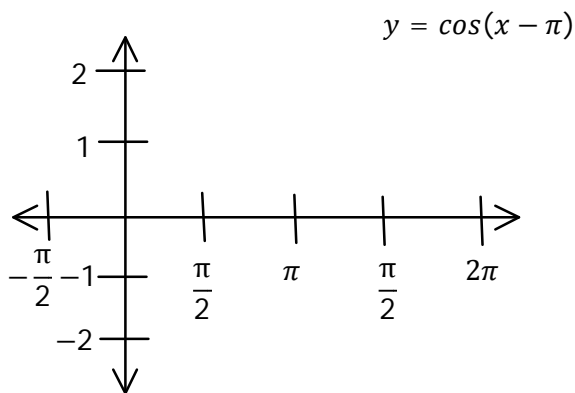
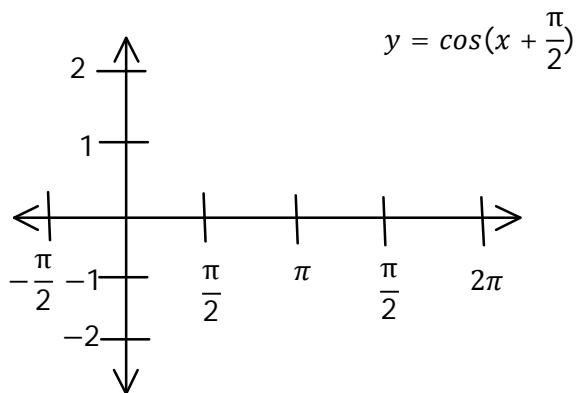
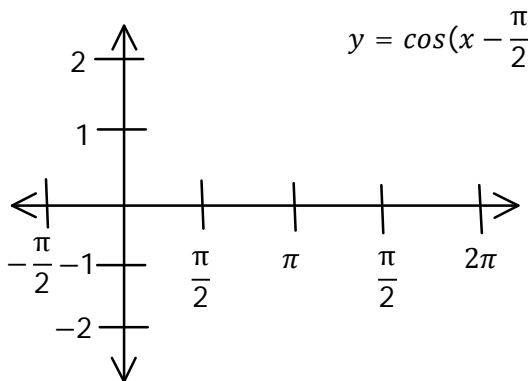


C12 - 5.3 - "c" Graphing WS

Determine c , and the equation $y = \sin(x - c)$



Determine c , and the equation $y = \cos(x - c)$



C12 - 5.3 - Graph Homework

$$y = 3 \sin(2x) + 1$$

$$y = 3 \sin\left(x + \frac{\pi}{3}\right) - 2$$

$$y = 3 \cos(x - \pi) + 1$$

$$y = 3 \cos\left(\frac{1}{2}\left(x - \frac{\pi}{2}\right)\right) + 1$$

C12 - 5.4 - Ferris Wheel WS

A Ferris wheel with radius 12 m is 2 m off the ground. It takes 20 seconds for one complete revolution. Draw a diagram of the Ferris wheel, graph the height of a passenger starting at the bottom with a table of values and write the equation. **How high at 6 second in. How long above 18m in one cycle.**