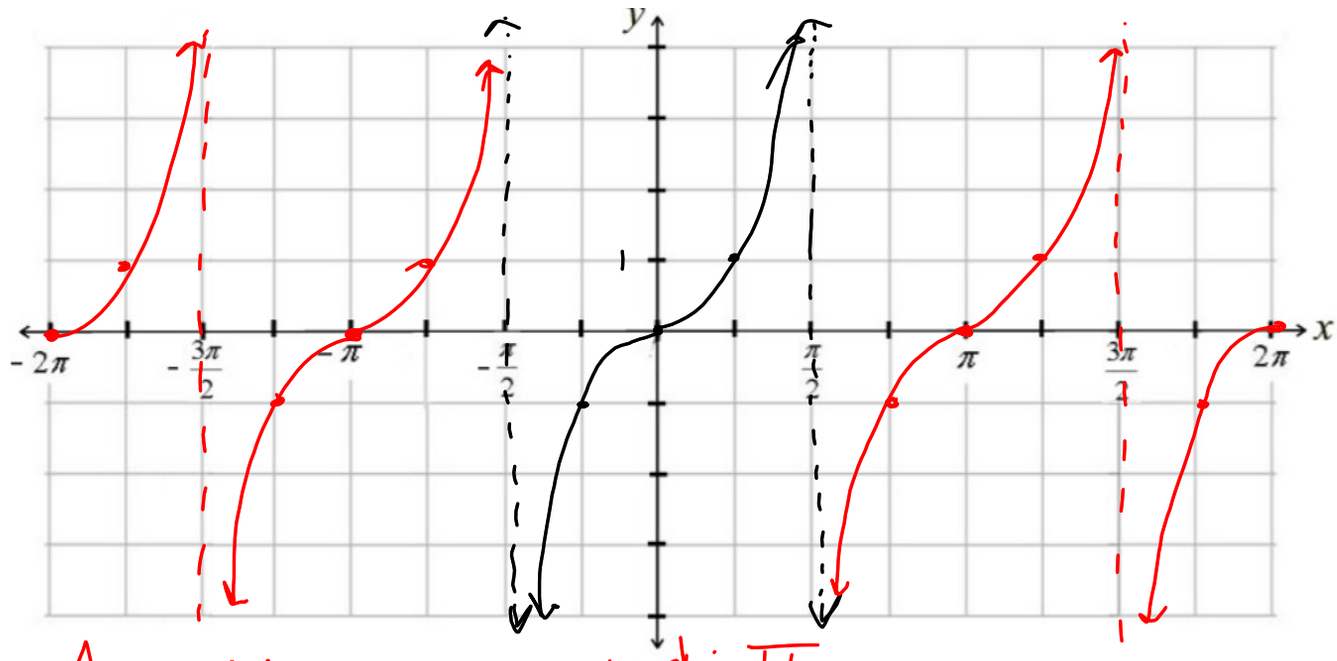
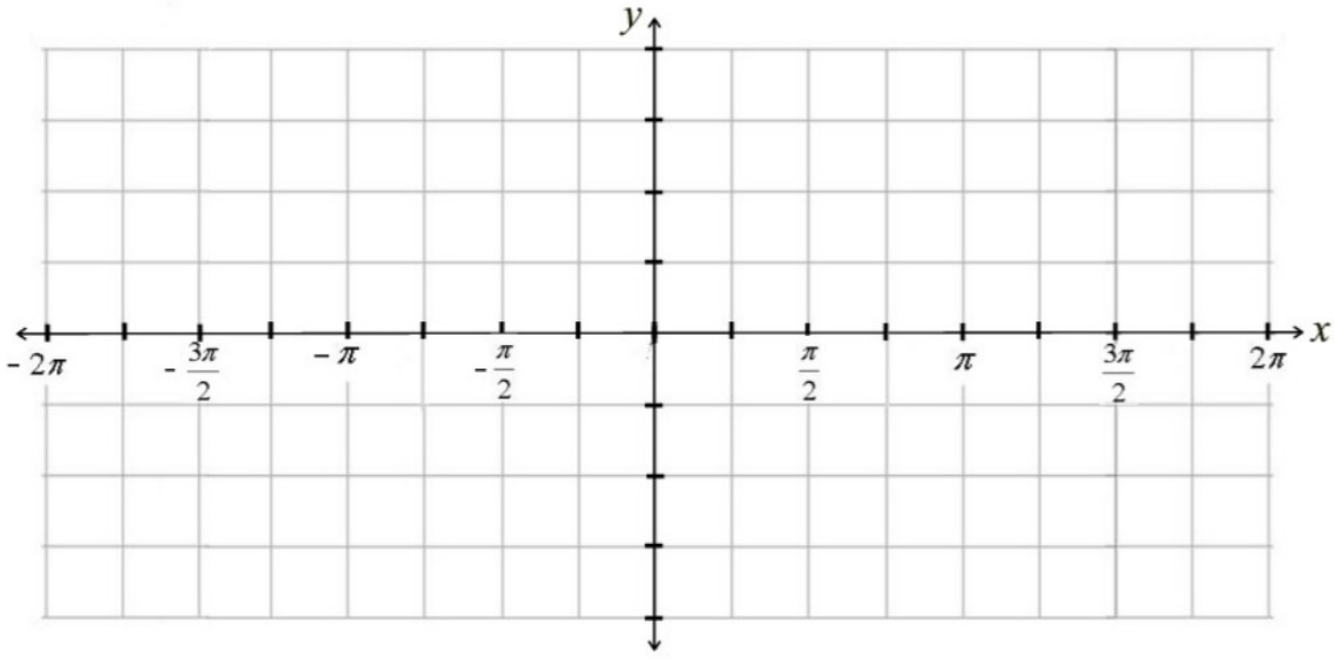
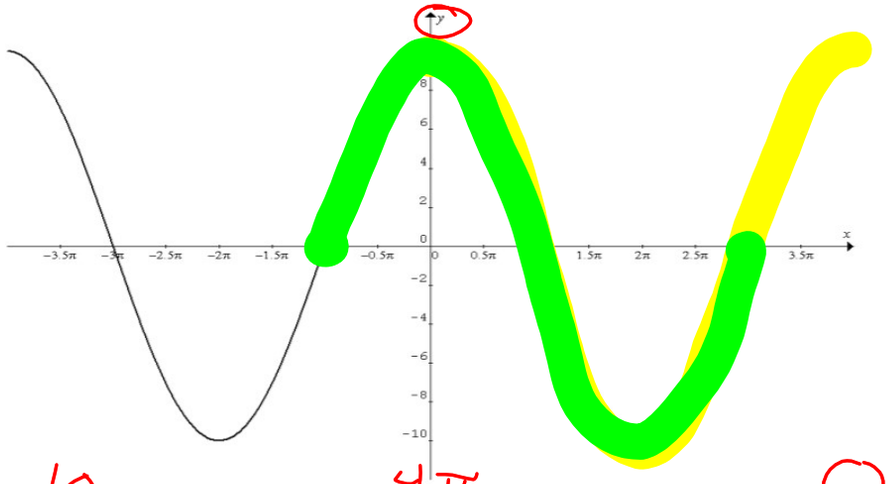


Amp: None Period: π

Asymptotes: 0 and 2π ; $\frac{\pi}{2}$, $\frac{3\pi}{2}$

$x = \frac{\pi}{2} + \pi n$ where $n \in \mathbb{Z}$


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



$\frac{2\pi}{b} = 4\pi$

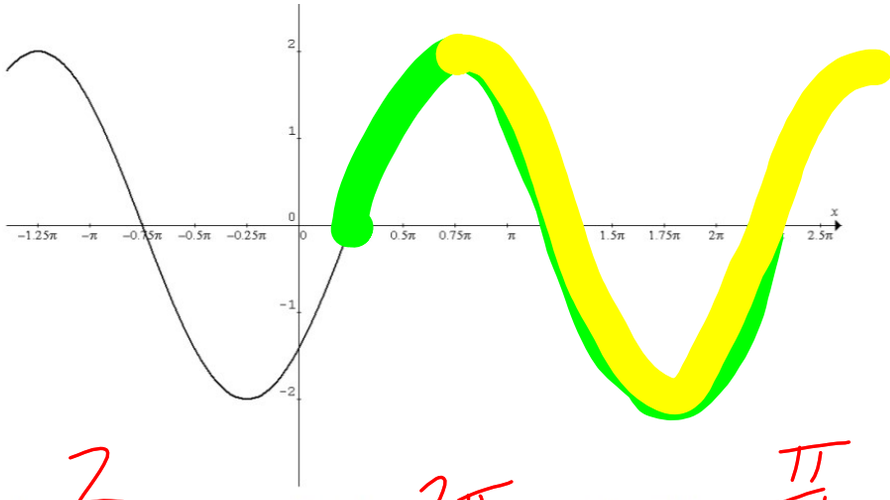
Amplitude = 10 Period = 4π Phase Shift = 0

Equation (1) = _____ (in terms of the **cosine** function)

$f_1(x) =$

$y_1 = 10\cos\frac{1}{2}(\theta)$

$y_1 = 10\sin\frac{1}{2}(\theta + \pi)$

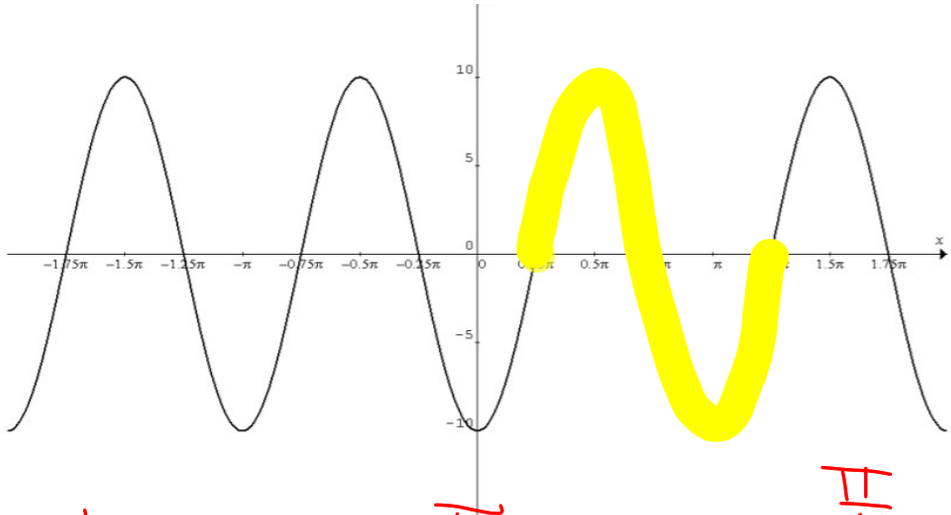


Amplitude = 2 Period = 2π Phase Shift = $\frac{\pi}{4}$

Equation (2) = _____ (in terms of the **sine** function)

$y_2 = 2\sin\left(x - \frac{\pi}{4}\right)$

$y_2 = 2\cos\left(x - \frac{3\pi}{4}\right)$

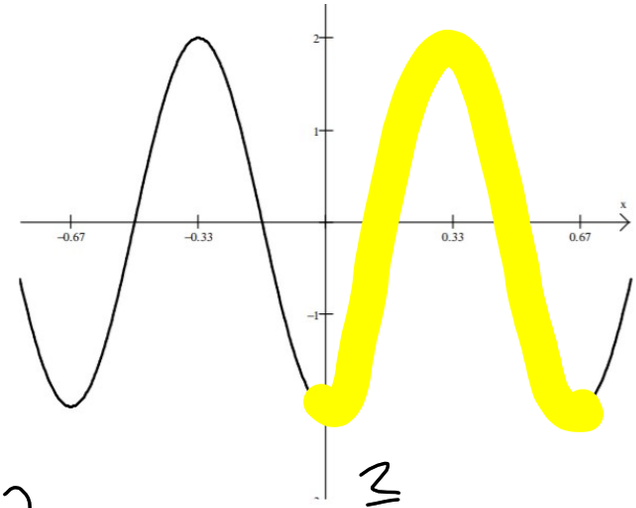


Amplitude = 10 Period = π Phase Shift = $\frac{\pi}{4}$

Equation (3) = _____ (in terms of the **sine** function)

$y_3 = 10 \sin 2\left(x - \frac{\pi}{4}\right)$

$y_3 = -10 \cos 2x$



$\frac{2\pi}{b} = \frac{2}{3}$

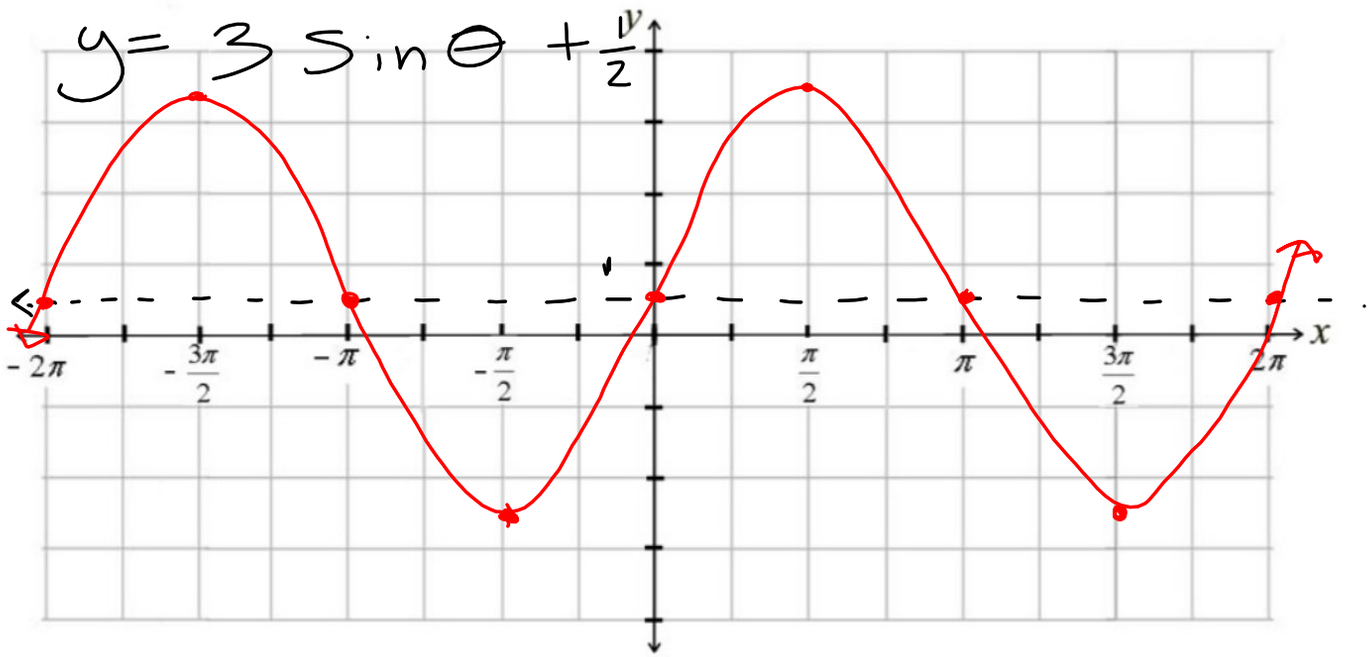
$6\pi = 2b$

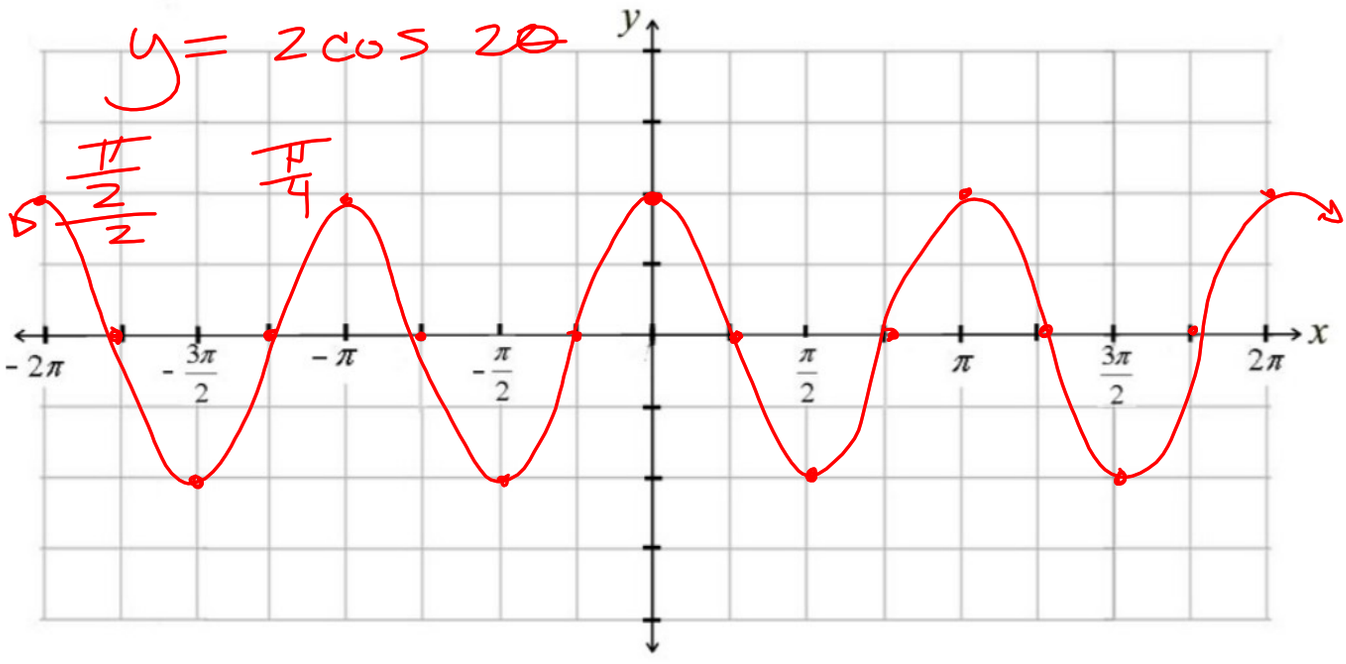
$b = 3\pi$

Amplitude = 2 Period = $\frac{2}{3}$ Phase Shift = 0

Equation (4) = _____ (in terms of the **cosine** function)

$y_4 = -2\cos 3\pi(x)$


y = 3 sin θ + 1/2
y
x
-2π
-3π/2
-π
-π/2
π/2
π
3π/2
2π


y = 2cos 2θ
π/2
2/2
π/4
y
x
-2π
-3π/2
-π
-π/2
π/2
π
3π/2
2π