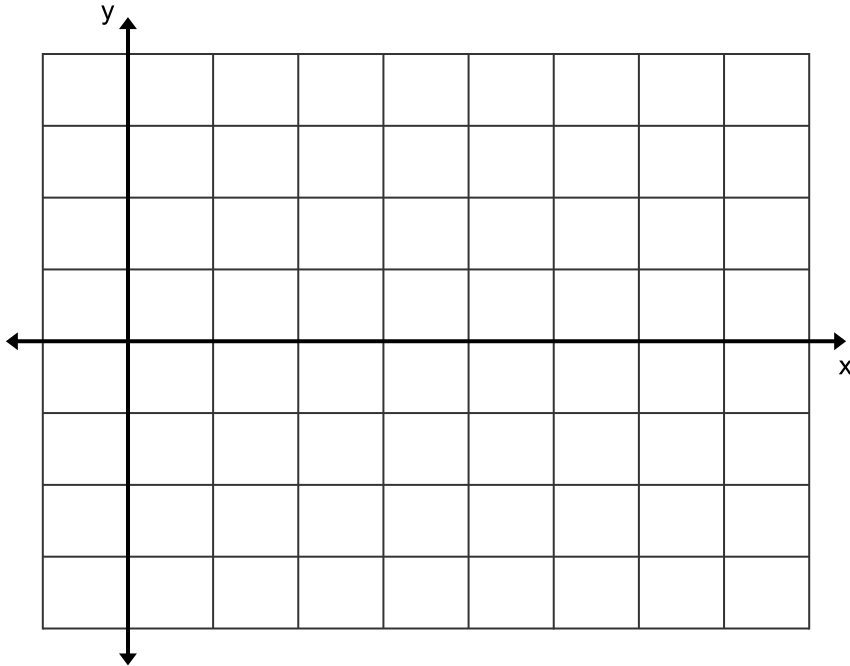
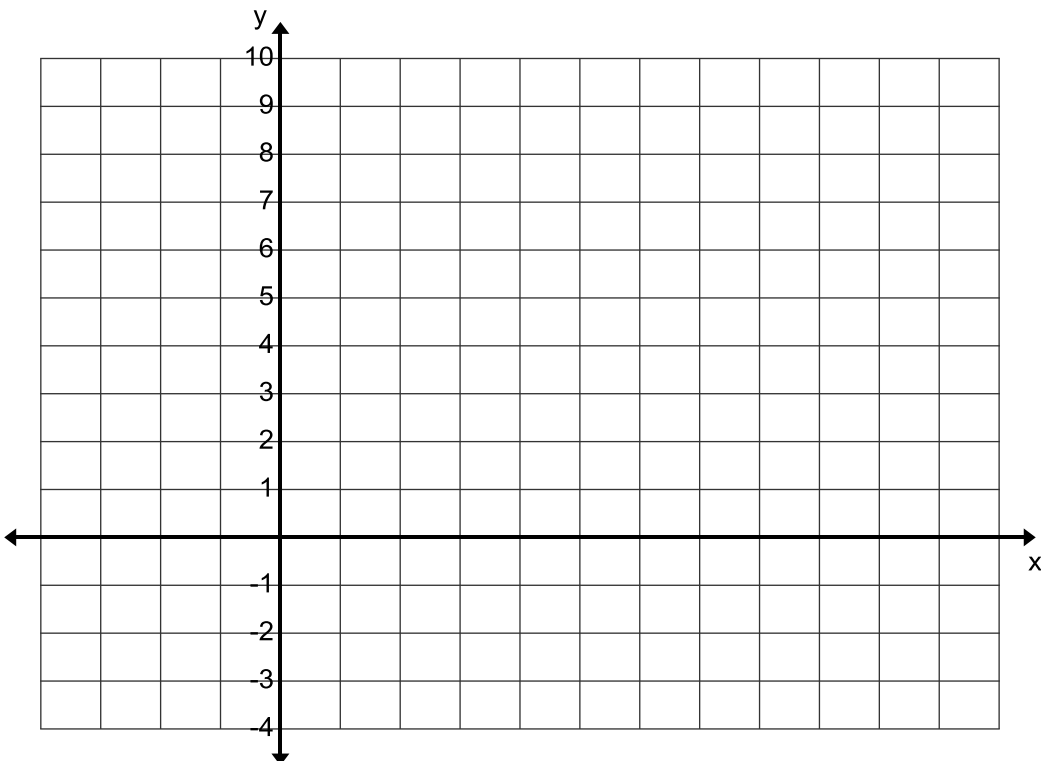


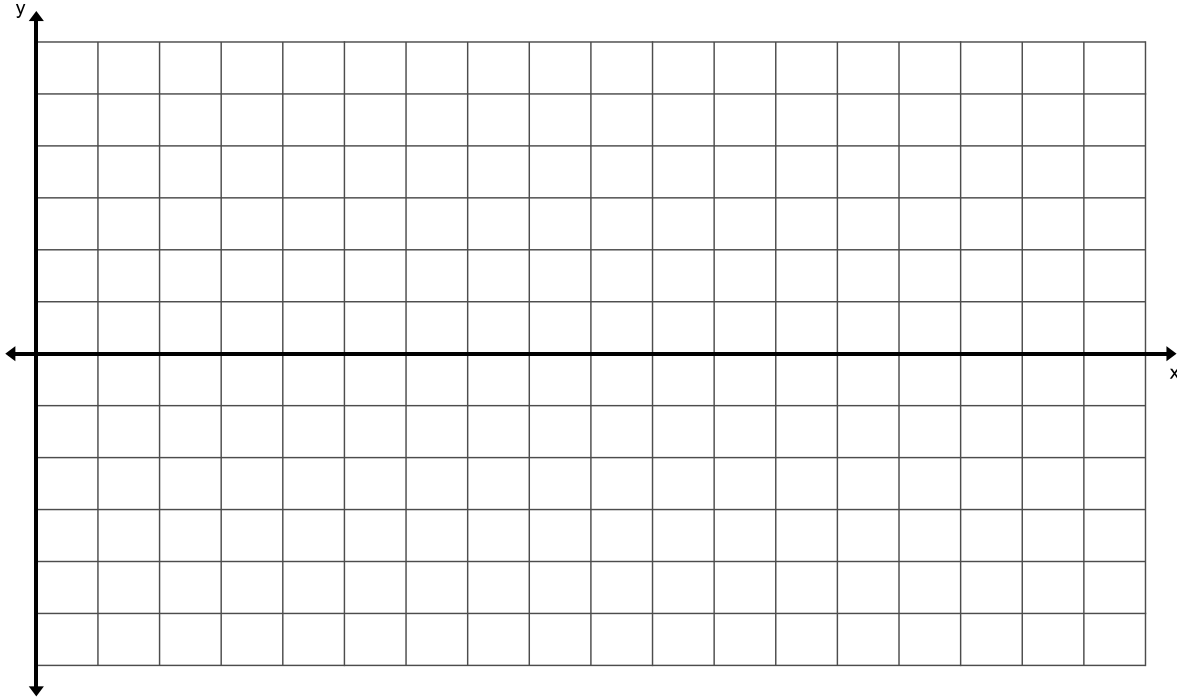
1.) Graph one cycle of $y = -\sin 2x$



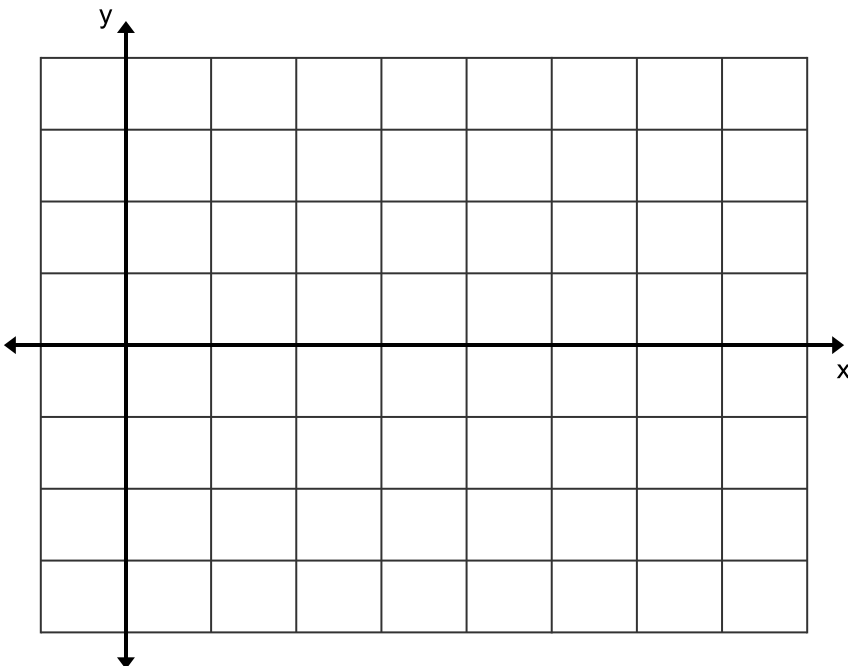
2.) Graph one cycle of the equation: $y = 2 \sin \frac{\pi}{4} x + 6$



3.) Graph the equation: $y = 3\sin(2x)+1$ over the domain $[0, 2\pi]$



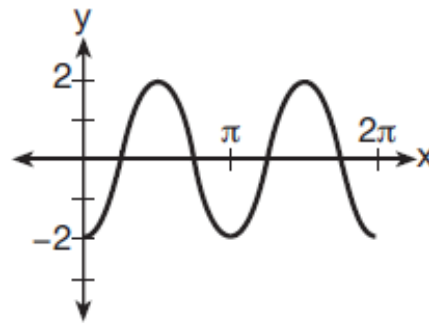
4.) Graph one cycle of the equation: $y = -\cos\frac{1}{2}x$



5.) What is the period of the graph of $y = -5\sin\left(\frac{1}{3}x\right) - 4$?

- (a) $\frac{2\pi}{3}$ (b) $-\frac{2\pi}{5}$ (c) 6π (d) 4

6.) Write an equation for the graph of the trigonometric function shown below.



7.) Which statement is true about the graph of $f(x) = 2\sin(4x) + 3$

- (a) The midline is $y = 4$. (b) The midline is $y = 2$.
(c) The midline is $y = 3$. (d) The midline is $y = \frac{1}{2}$.

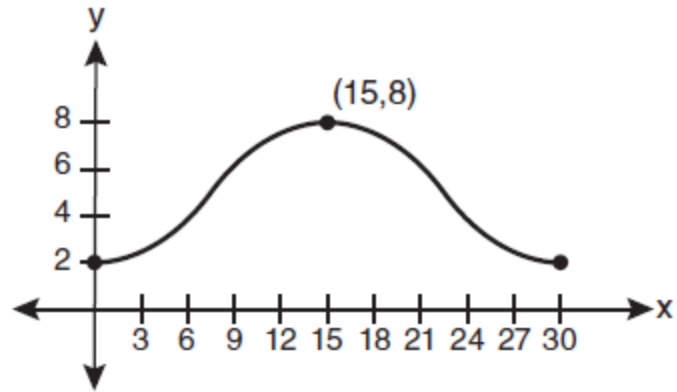
8.) Which equation is graphed in the diagram below?

(a) $y = 3 \cos\left(\frac{\pi}{30}x\right) + 8$

(b) $y = 3 \cos\left(\frac{\pi}{15}x\right) + 5$

(c) $y = -3 \cos\left(\frac{\pi}{30}x\right) + 8$

(d) $y = -3 \cos\left(\frac{\pi}{15}x\right) + 5$



9.) Sketch one cycle of a cosine function with amplitude 3, period π , and a midline of $y = 1$.

