

Name: _____ Date: _____ Per: _____

PC 4-4
Graphing Practice

Clearly sketch one **cycle** of each function below.

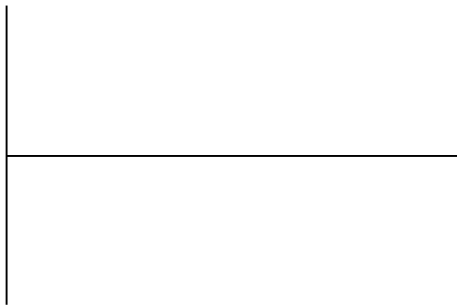
1) $y = 2\sin(2x)$



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



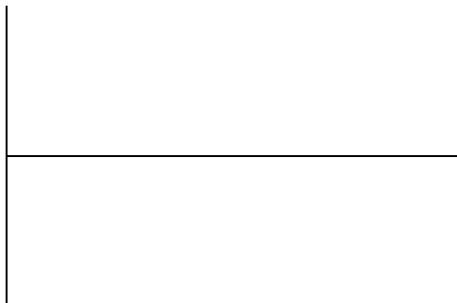
3) $y = 3\cos(x) + 2$



4) $y = -2\sin(0.5x) + 1$



5) $y = -\sin(x + \pi)$



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



7) $y = 3 \sin(2x)$



8) $y = -4 \sin\left(\frac{1}{3}x\right) - 1$



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

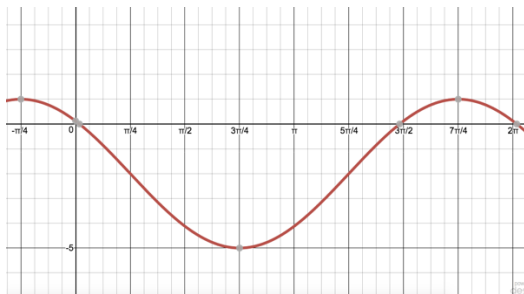


10) $y = -\cos 3(x - \pi)$

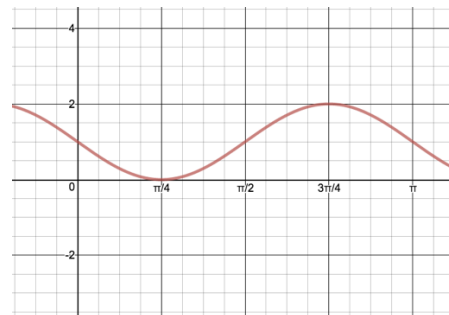


Examine the graph shown and **write the equation** that matches. There may be more than one answer depending on your choice of $\sin(x)$ or $\cos(x)$.

11)



12)



13) Re-examine your answers from #11 and #12 to answer the following questions:

- What did you look for in determining the amplitude?
- What did you look for in determining the period of the function?