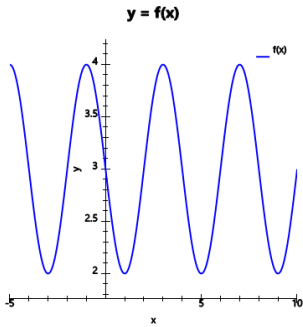


Sinusoidal Function Parameters (3 Params) - Graph to Function

1 Which function would have a graph with this vertical shift?



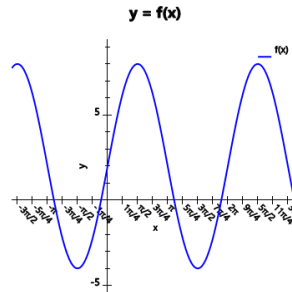
A $f(x) = \cos\left(\frac{1}{2}\pi x + 5\pi\right) - 2$

B $f(x) = \cos\left(\frac{1}{2}\pi x + 5\pi\right) + 1$

C $f(x) = \cos\left(\frac{1}{2}\pi x + 5\pi\right) + 3$

D $f(x) = \cos\left(\frac{1}{2}\pi x + 5\pi\right)$

2 Which function would have a graph with this vertical shift?



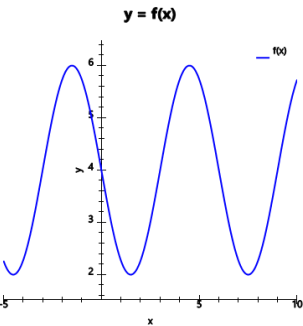
A $f(x) = 6 \cos(x + 4\pi)$

B $f(x) = 6 \cos(x + 4\pi) - 5$

C $f(x) = 6 \cos(x + 4\pi) - 2$

D $f(x) = 6 \cos(x + 4\pi) + 2$

3 Which function would have a graph with this period?



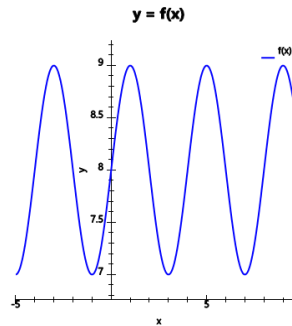
A $f(x) = -2 \sin\left(\frac{4}{3}\pi x\right) + 4$

B $f(x) = -2 \sin\left(\frac{5}{3}\pi x\right) + 4$

C $f(x) = -2 \sin\left(\frac{3}{3}\pi x\right) + 4$

D $f(x) = -2 \sin\left(\frac{1}{3}\pi x\right) + 4$

4 Which function would have a graph with this vertical shift?



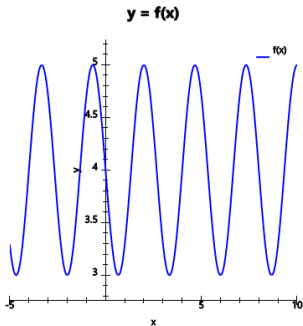
A $f(x) = \sin\left(\frac{1}{2}\pi x + 4\pi\right) - 4$

B $f(x) = \sin\left(\frac{1}{2}\pi x + 4\pi\right) + 8$

C $f(x) = \sin\left(\frac{1}{2}\pi x + 4\pi\right) - 2$

D $f(x) = \sin\left(\frac{1}{2}\pi x + 4\pi\right) + 1$

5 Which function would have a graph with this period?



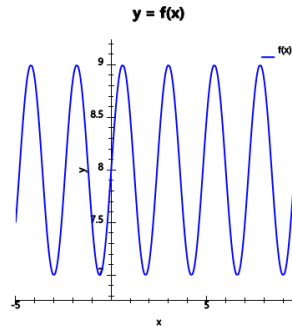
A $f(x) = \sin\left(\frac{1}{4}\pi x + 7\pi\right) + 4$

B $f(x) = \sin\left(\frac{5}{4}\pi x + 7\pi\right) + 4$

C $f(x) = \sin\left(\frac{3}{4}\pi x + 7\pi\right) + 4$

D $f(x) = \sin\left(\frac{7}{4}\pi x + 7\pi\right) + 4$

6 Which function would have a graph with this vertical shift?



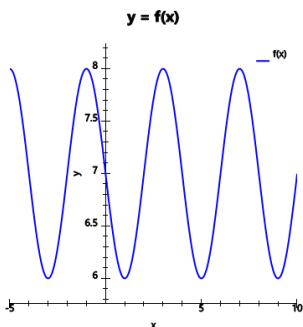
A $f(x) = \cos\left(\frac{5}{6}\pi x + 6\pi\right) - 2$

B $f(x) = \cos\left(\frac{5}{6}\pi x + 6\pi\right) + 8$

C $f(x) = \cos\left(\frac{5}{6}\pi x + 6\pi\right) - 1$

D $f(x) = \cos\left(\frac{5}{6}\pi x + 6\pi\right) + 3$

7 Which function would have a graph with this vertical shift?



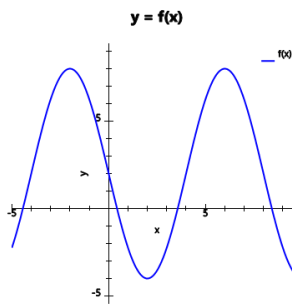
A $f(x) = \cos\left(\frac{1}{2}\pi x + 3\pi\right) - 1$

B $f(x) = \cos\left(\frac{1}{2}\pi x + 3\pi\right) + 4$

C $f(x) = \cos\left(\frac{1}{2}\pi x + 3\pi\right) + 7$

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

8 Which function would have a graph with this amplitude?



A $f(x) = -6 \sin\left(\frac{1}{4}\pi x\right) + 2$

B $f(x) = -4 \sin\left(\frac{1}{4}\pi x\right) + 2$

C $f(x) = 4 \sin\left(\frac{1}{4}\pi x\right) + 2$

D $f(x) = 2 \sin\left(\frac{1}{4}\pi x\right) + 2$