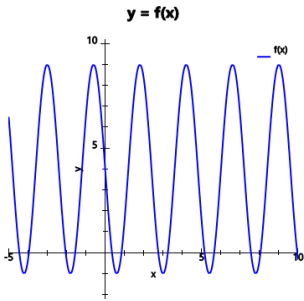


Sinusoidal Function Parameters (4 Params) - Graph to Function

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



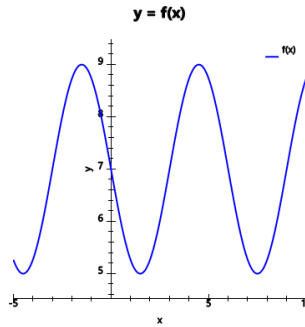
A $f(x) = -5 \sin\left(\frac{5}{6}\pi x + 2\pi\right) - 2$

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

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

D $f(x) = -5 \sin\left(\frac{5}{6}\pi x + 2\pi\right) + 4$

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



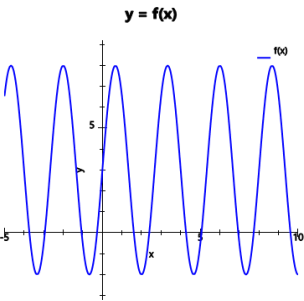
A $f(x) = -2 \sin\left(\frac{1}{3}\pi x + 8\pi\right) - 5$

B $f(x) = -2 \sin\left(\frac{1}{3}\pi x + 8\pi\right) - 2$

C $f(x) = -2 \sin\left(\frac{1}{3}\pi x + 8\pi\right)$

D $f(x) = -2 \sin\left(\frac{1}{3}\pi x + 8\pi\right) + 7$

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



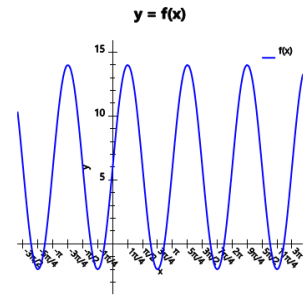
A $f(x) = -5 \cos\left(\frac{3}{4}\pi x + 5\pi\right) + 3$

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

C $f(x) = -5 \cos\left(\frac{3}{4}\pi x + 5\pi\right)$

D $f(x) = -5 \cos\left(\frac{3}{4}\pi x + 5\pi\right) - 4$

4 Which function would have a graph with this period?



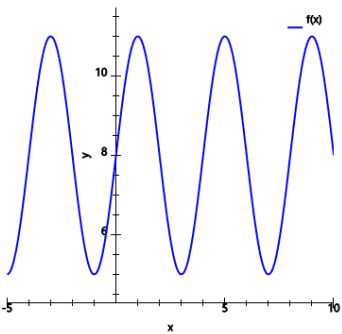
A $f(x) = -8 \cos(4x + 5\pi) + 6$

B $f(x) = -8 \cos(5x + 5\pi) + 6$

C $f(x) = -8 \cos(6x + 5\pi) + 6$

D $f(x) = -8 \cos(2x + 5\pi) + 6$

5 $y = f(x)$

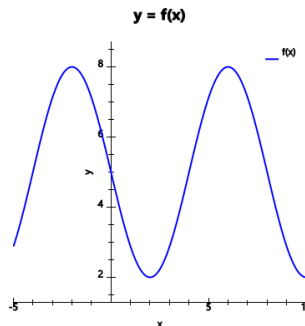


Which function would have a graph with this period?

A $f(x) = 3 \sin\left(\frac{1}{2}\pi x + 4\pi\right) + 8$

B $f(x) = 3 \sin\left(\frac{3}{2}\pi x + 4\pi\right) + 8$

6 Which function would have a graph with this period?



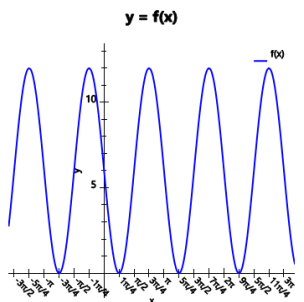
A $f(x) = -3 \sin\left(\frac{1}{4}\pi x + 6\pi\right) + 5$

B $f(x) = -3 \sin\left(\frac{4}{4}\pi x + 6\pi\right) + 5$

C $f(x) = -3 \sin\left(\frac{3}{4}\pi x + 6\pi\right) + 5$

D $f(x) = -3 \sin\left(\frac{7}{4}\pi x + 6\pi\right) + 5$

7 Which function would have a graph with this amplitude?



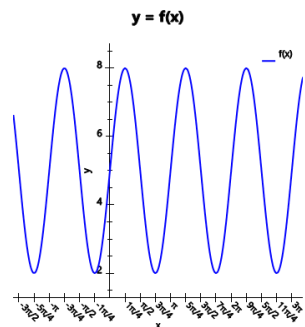
A $f(x) = \sin(2x + 4\pi) + 6$

B $f(x) = -6 \sin(2x + 4\pi) + 6$

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

D $f(x) = 3 \sin(2x + 4\pi) + 6$

8 Which function would have a graph with this amplitude?



A $f(x) = -3 \sin(2x + 6\pi) + 5$

B $f(x) = -5 \sin(2x + 6\pi) + 5$

C $f(x) = 3 \sin(2x + 6\pi) + 5$

D $f(x) = \sin(2x + 6\pi) + 5$