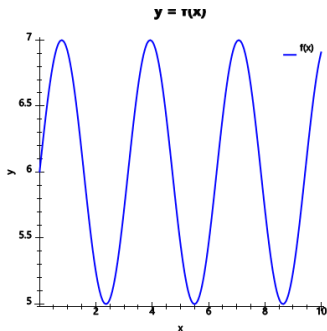




Sinusoidal Function Parameters (3 Params) - Graph to Function

- 1 Which function would have a graph with this period?



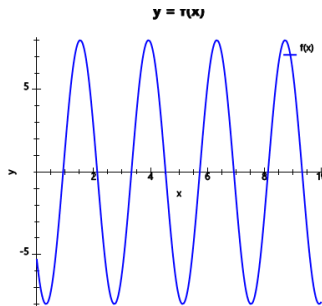
A $f(x) = \sin(5x + 4\pi) + 6$

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

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

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

- 2 Which function would have a graph with this period?



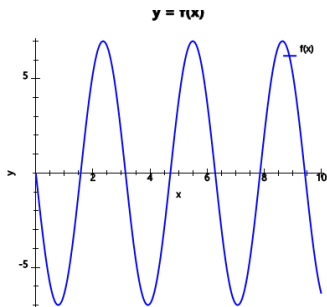
A $f(x) = -8 \sin\left(\frac{1}{6}\pi x + 7\right)$

B $f(x) = -8 \sin\left(\frac{11}{6}\pi x + 7\right)$

C $f(x) = -8 \sin\left(\frac{10}{6}\pi x + 7\right)$

D $f(x) = -8 \sin\left(\frac{5}{6}\pi x + 7\right)$

- 3 Which function would have a graph with this phase shift?



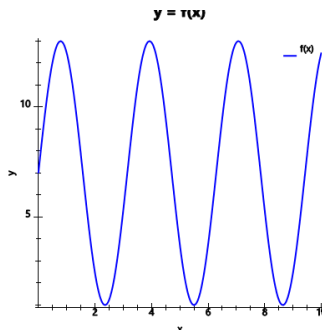
A $f(x) = -7 \cos(2x + 6\pi)$

B $f(x) = -7 \cos(2x)$

C $f(x) = -7 \cos\left(2x - \frac{5}{6}\pi\right)$

D $f(x) = -7 \cos\left(2x - \frac{8}{6}\pi\right)$

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



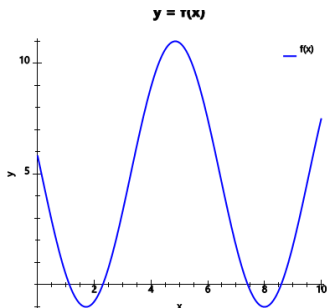
A $f(x) = 6 \cos(2x) + 4$

B $f(x) = 6 \cos(2x) + 7$

C $f(x) = 6 \cos(2x) + 3$

D $f(x) = 6 \cos(2x) - 1$

- 5 Which function would have a graph with this phase shift?



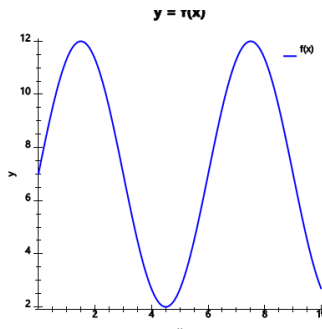
A $f(x) = 6 \cos\left(x + \frac{4}{6}\right) + 5$

B $f(x) = 6 \cos(x + 3) + 5$

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

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

- 6 Which function would have a graph with this period?



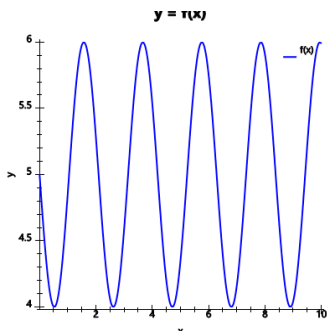
A $f(x) = 5 \cos\left(\frac{3}{3}\pi x\right) + 7$

B $f(x) = 5 \cos\left(\frac{1}{3}\pi x\right) + 7$

C $f(x) = 5 \cos\left(\frac{4}{3}\pi x\right) + 7$

D $f(x) = 5 \cos\left(\frac{5}{3}\pi x\right) + 7$

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



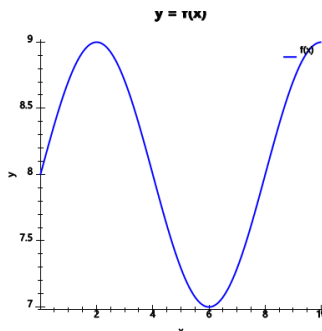
A $f(x) = \cos(3x + 7\pi) + 5$

B $f(x) = \cos(3x + 7\pi) - 1$

C $f(x) = \cos(3x + 7\pi) - 3$

D $f(x) = \cos(3x + 7\pi) - 2$

- 8 Which function would have a graph with this period?



A $f(x) = \cos\left(\frac{7}{4}\pi x + 4\pi\right) + 8$

B $f(x) = \cos\left(\frac{6}{4}\pi x + 4\pi\right) + 8$

C $f(x) = \cos\left(\frac{1}{4}\pi x + 4\pi\right) + 8$

D $f(x) = \cos\left(\frac{5}{4}\pi x + 4\pi\right) + 8$