Sinusoidal Function Parameters (4 Params) - Graph to Function
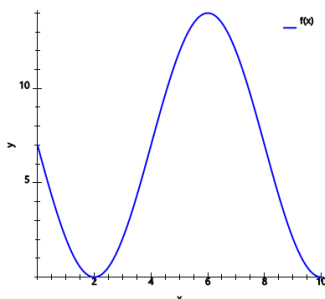
Name

1 Which function would have a graph with this amplitude?

A $f(x) = -7\cos(\frac{1}{4}\pi x + 2\pi) + 7$
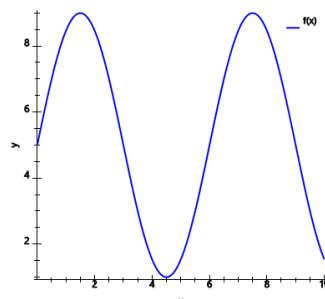
B $f(x) = \cos(\frac{1}{4}\pi x + 2\pi) + 7$

C $f(x) = 4\cos(\frac{1}{4}\pi x + 2\pi) + 7$

D $f(x) = -1\cos(\frac{1}{4}\pi x + 2\pi) + 7$

2 Which function would have a graph with this period?

A $f(x) = 4\sin(\frac{1}{3}\pi x + 8\pi) + 5$
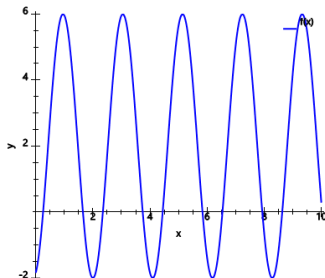
B $f(x) = 4\sin(\frac{4}{3}\pi x + 8\pi) + 5$

C $f(x) = 4\sin(\frac{3}{3}\pi x + 8\pi) + 5$

D $f(x) = 4\sin(\frac{5}{3}\pi x + 8\pi) + 5$

3 Which function would have a graph with this period?
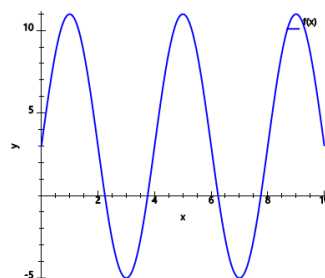

A $f(x) = 4\cos(6x + 5) + 2$

B $f(x) = 4\cos(5x + 5) + 2$

C $f(x) = 4\cos(x + 5) + 2$

D $f(x) = 4\cos(3x + 5) + 2$

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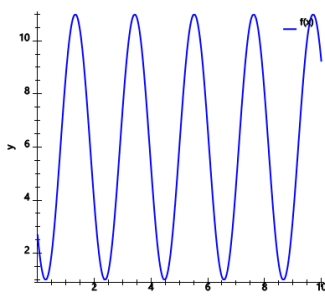

A $f(x) = -8\sin(\frac{1}{2}\pi x + 7\pi) + 1$

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

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

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

5 Which function would have a graph with this period?
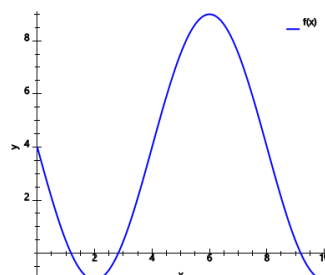

A $f(x) = -5\cos(3x + 7) + 6$

B $f(x) = -5\cos(6x + 7) + 6$

C $f(x) = -5\cos(x + 7) + 6$

D $f(x) = -5\cos(5x + 7) + 6$

6 Which function would have a graph with this period?

A $f(x) = -5\sin(\frac{6}{4}\pi x + 8\pi) + 4$

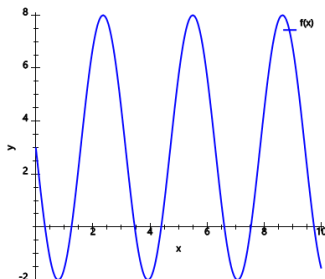B $f(x) = -5\sin(\frac{3}{4}\pi x + 8\pi) + 4$

C $f(x) = -5\sin(\frac{1}{4}\pi x + 8\pi) + 4$

D $f(x) = -5\sin(\frac{4}{4}\pi x + 8\pi) + 4$

7 Which function would have a graph with this period?
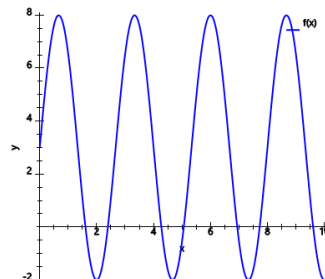

A $f(x) = 5\sin(6x + 7\pi) + 3$

B $f(x) = 5\sin(4x + 7\pi) + 3$

C $f(x) = 5\sin(5x + 7\pi) + 3$

D $f(x) = 5\sin(2x + 7\pi) + 3$

8 Which function would have a graph with this period?

A $f(x) = 5\sin(\frac{3}{4}\pi x + 8\pi) + 3$

B $f(x) = 5\sin(\frac{7}{4}\pi x + 8\pi) + 3$

C $f(x) = 5\sin(\frac{6}{4}\pi x + 8\pi) + 3$

D $f(x) = 5\sin(\frac{5}{4}\pi x + 8\pi) + 3$