1 Which graph shows a sinusoidal function with this period?
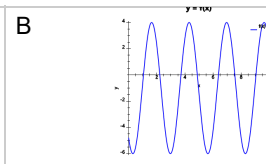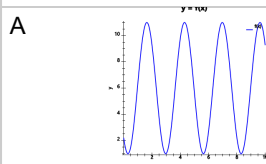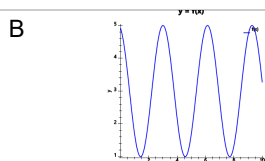
$$f(x) = 4\cos(2x + 8\pi) + 5$$

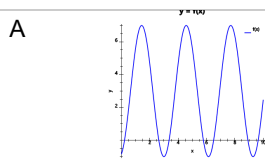A   B

2 Which graph shows a sinusoidal function with this vertical shift?
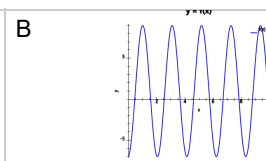
$$f(x) = 5\cos(\frac{3}{4}\pi x + 4) + 6$$
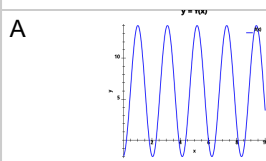
A   B

3 Which graph shows a sinusoidal function with this amplitude?

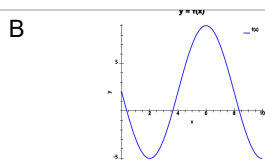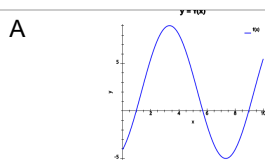$$f(x) = -2\sin(2x + 5) + 3$$

A   B

4 Which graph shows a sinusoidal function with this vertical shift?
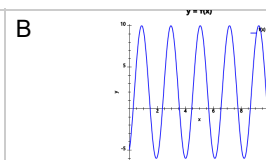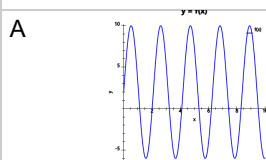
$$f(x) = -8\sin(3x + 8) + 6$$

A   B

5 Which graph shows a sinusoidal function with this phase shift?

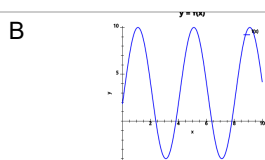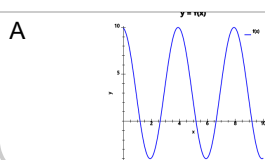$$f(x) = 7\cos(\frac{1}{4}\pi x + 5\pi) + 2$$

A   B

6 Which graph shows a sinusoidal function with this phase shift?

$$f(x) = -8\sin(3x + 5\pi) + 2$$

A   B

7 Which graph shows a sinusoidal function with this phase shift?

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

A   B

8 Which graph shows a sinusoidal function with this vertical shift?

$$f(x) = 3\cos(2x + 7) + 8$$

A   B