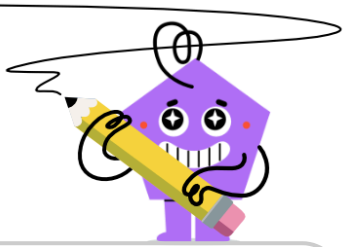
Name



Sinusoidal Function Parameters (4 Params) - Function to Parameters

1 What are the period, amplitude, vertical shift, and phase shift of this sinusoidal function?

$$f(x) = -\frac{3}{5}\sin\left(\frac{6}{5}\pi x + \frac{3}{2}\right) + \frac{6}{11}$$

A	B	C	D
Amplitude $= \frac{3}{5}$ Period $= \frac{10}{6}$ Phase Shift $= -\frac{3}{2}$ right Vertical Shift $= \frac{6}{11}$	Amplitude $= \frac{3}{5}$ Period $= \frac{10}{6}$ Phase Shift $= \frac{3}{2}$ left Vertical Shift $= \frac{6}{11}$	Amplitude $= \frac{3}{5}$ Period $= \frac{10}{6}$ Phase Shift $= \frac{3}{2}\pi$ left Vertical Shift $= \frac{6}{11}$	Amplitude $= \frac{3}{2}$ Period $= \frac{10}{6}$ Phase Shift $= -\frac{3}{5}$ right Vertical Shift $= \frac{6}{11}$

2 What are the vertical shift, period, amplitude, and phase shift of this sinusoidal function?

$$f(x) = \frac{3}{7}\cos\left(\frac{5}{2}\pi x + \frac{6}{7}\pi\right) + \frac{3}{11}$$

A	B	C	D
Amplitude $= \frac{3}{7}$ Period $= \frac{4}{5}$ Phase Shift $= \frac{6}{7}\pi$ left Vertical Shift $= \frac{3}{11}$	Amplitude $= \frac{3}{7}$ Period $= \frac{4}{5}$ Phase Shift $= \frac{3}{11}\pi$ left Vertical Shift $= \frac{6}{7}$	Amplitude $= \frac{5}{2}$ Period $= \frac{14}{3}$ Phase Shift $= \frac{6}{7}\pi$ left Vertical Shift $= \frac{3}{11}$	Amplitude $= \frac{3}{7}$ Period $= \frac{4}{5}$ Phase Shift $= \frac{6}{7}$ left Vertical Shift $= \frac{3}{11}$

3 What are the amplitude, phase shift, period, and vertical shift of this sinusoidal function?

$$f(x) = -\frac{8}{11}\cos\left(\frac{8}{5}x + \frac{7}{5}\pi\right) + \frac{8}{3}$$

A	B	C	D
Amplitude $= \frac{7}{5}$ Period $= \frac{10\pi}{8}$ Phase Shift $= -\frac{8}{11}\pi$ right Vertical Shift $= \frac{8}{3}$	Amplitude $= \frac{8}{11}$ Period $= \frac{6\pi}{8}$ Phase Shift $= \frac{7}{5}\pi$ left Vertical Shift $= \frac{8}{5}$	Amplitude $= \frac{8}{11}$ Period $= \frac{10\pi}{8}$ Phase Shift $= \frac{7}{5}\pi$ left Vertical Shift $= \frac{8}{3}$	Amplitude $= \frac{8}{11}$ Period $= \frac{10\pi}{7}$ Phase Shift $= \frac{8}{5}\pi$ left Vertical Shift $= \frac{8}{3}$

4 What are the phase shift, amplitude, vertical shift, and period of this sinusoidal function?

$$f(x) = -\frac{2}{3}\sin\left(\frac{3}{5}x + \frac{3}{7}\right) + \frac{7}{5}$$

A	B	C	D
Amplitude $= \frac{2}{3}$ Period $= \frac{10\pi}{3}$ Phase Shift $= -\frac{3}{7}$ right Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{3}{5}$ Period $= \frac{6\pi}{2}$ Phase Shift $= -\frac{3}{7}$ right Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{2}{3}$ Period $= \frac{10\pi}{3}$ Phase Shift $= \frac{3}{7}$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{2}{3}$ Period $= \frac{10\pi}{3}$ Phase Shift $= \frac{7}{5}$ left Vertical Shift $= -\frac{3}{7}$

5 What are the vertical shift, period, amplitude, and phase shift of this sinusoidal function?

$$f(x) = \frac{4}{11}\sin\left(\frac{7}{3}x + \frac{6}{3}\pi\right) + \frac{7}{5}$$

A	B	C	D
Amplitude $= \frac{6}{3}$ Period $= \frac{6\pi}{7}$ Phase Shift $= \frac{4}{11}\pi$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{4}{11}$ Period $= \frac{6\pi}{7}$ Phase Shift $= \frac{6}{3}\pi$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{4}{11}$ Period $= \frac{6\pi}{7}$ Phase Shift $= \frac{6}{3}$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{4}{11}$ Period $= \frac{6\pi}{7}$ Phase Shift $= -\frac{6}{3}\pi$ right Vertical Shift $= \frac{7}{5}$

6 What are the period, amplitude, phase shift, and vertical shift of this sinusoidal function?

$$f(x) = -\frac{5}{7}\sin\left(\frac{3}{7}x + \frac{6}{2}\pi\right) + \frac{6}{3}$$

A	B	C	D
Amplitude $= \frac{5}{7}$ Period $= \frac{6\pi}{6}$ Phase Shift $= \frac{6}{2}\pi$ left Vertical Shift $= \frac{3}{7}$	Amplitude $= \frac{5}{7}$ Period $= \frac{4\pi}{6}$ Phase Shift $= \frac{3}{7}\pi$ left Vertical Shift $= \frac{6}{3}$	Amplitude $= \frac{3}{7}$ Period $= \frac{14\pi}{5}$ Phase Shift $= \frac{6}{2}\pi$ left Vertical Shift $= \frac{6}{3}$	Amplitude $= \frac{5}{7}$ Period $= \frac{14\pi}{3}$ Phase Shift $= \frac{6}{2}\pi$ left Vertical Shift $= \frac{6}{3}$

7 What are the vertical shift, amplitude, phase shift, and period of this sinusoidal function?

$$f(x) = \frac{7}{2}\sin\left(\frac{8}{3}\pi x + \frac{5}{2}\pi\right) + \frac{6}{3}$$

A	B	C	D
Amplitude $= \frac{7}{2}$ Period $= \frac{6}{8}$ Phase Shift $= \frac{5}{2}\pi$ left Vertical Shift $= \frac{6}{3}$	Amplitude $= \frac{7}{2}$ Period $= \frac{6\pi}{8}$ Phase Shift $= \frac{5}{2}\pi$ left Vertical Shift $= \frac{6}{3}$	Amplitude $= \frac{7}{2}$ Period $= \frac{6}{8}$ Phase Shift $= \frac{5}{2}$ left Vertical Shift $= \frac{6}{3}$	Amplitude $= \frac{6}{3}$ Period $= \frac{6}{8}$ Phase Shift $= \frac{5}{2}\pi$ left Vertical Shift $= \frac{7}{2}$

8 What are the phase shift, period, vertical shift, and amplitude of this sinusoidal function?

$$f(x) = -\frac{4}{7}\cos\left(\frac{3}{11}\pi x + \frac{4}{5}\right) + \frac{2}{5}$$

A	B	C	D
Amplitude $= \frac{3}{11}$ Period $= \frac{14}{4}$ Phase Shift $= \frac{4}{5}$ left Vertical Shift $= \frac{2}{5}$	Amplitude $= \frac{2}{5}$ Period $= \frac{22}{3}$ Phase Shift $= \frac{4}{5}$ left Vertical Shift $= -\frac{4}{7}$	Amplitude $= \frac{4}{7}$ Period $= \frac{22}{3}$ Phase Shift $= \frac{4}{5}$ left Vertical Shift $= \frac{2}{5}$	Amplitude $= \frac{4}{7}$ Period $= \frac{10}{4}$ Phase Shift $= \frac{3}{11}$ left Vertical Shift $= \frac{2}{5}$