Name

Sinusoidal Function Parameters (3 Params) - Function to Parameters

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

$$f(x) = \frac{6}{7}\sin(\frac{5}{2}\pi x + \frac{4}{5}) + \frac{2}{3}$$

A	B	C	D
Period $= \frac{4}{5}$ Phase Shift $= \frac{4}{5}\pi$ left Vertical Shift $= \frac{2}{3}$	Period $= \frac{4}{5}$ Phase Shift $= \frac{4}{5}$ left Vertical Shift $= \frac{2}{3}$	Period $= \frac{6}{2}$ Phase Shift $= \frac{4}{5}$ left Vertical Shift $= \frac{5}{2}$	Period $= \frac{10}{4}$ Phase Shift $= \frac{5}{2}$ left Vertical Shift $= \frac{2}{3}$

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

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

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

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

$$f(x) = -\frac{4}{7}\sin(\frac{2}{3}x + \frac{7}{2}\pi) + \frac{7}{11}$$

A	B	C	D
Amplitude $= \frac{4}{7}$ Phase Shift $= \frac{7}{11}\pi$ left Vertical Shift $= \frac{7}{2}$	Amplitude $= \frac{4}{7}$ Phase Shift $= \frac{7}{2}$ left Vertical Shift $= \frac{7}{11}$	Amplitude $= \frac{4}{7}$ Phase Shift $= \frac{7}{2}\pi$ left Vertical Shift $= \frac{7}{11}$	Amplitude $= \frac{7}{2}$ Phase Shift $= -\frac{4}{7}\pi$ right Vertical Shift $= \frac{7}{11}$

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

$$f(x) = -\frac{3}{7}\cos(\frac{8}{7}x + \frac{2}{5}\pi) + \frac{6}{7}$$

A	B	C	D
Amplitude $= \frac{3}{7}$ Period $= \frac{14\pi}{6}$ Vertical Shift $= \frac{8}{7}$	Amplitude $= \frac{6}{7}$ Period $= \frac{14\pi}{8}$ Vertical Shift $= -\frac{3}{7}$	Amplitude $= \frac{8}{7}$ Period $= \frac{14\pi}{3}$ Vertical Shift $= \frac{6}{7}$	Amplitude $= \frac{3}{7}$ Period $= \frac{14\pi}{8}$ Vertical Shift $= \frac{6}{7}$

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

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

A	B	C	D
Amplitude $= \frac{6}{2}$ Period $= \frac{10}{3}$ Vertical Shift $= \frac{8}{7}$	Amplitude $= \frac{6}{2}$ Period $= \frac{14\pi}{8}$ Vertical Shift $= \frac{3}{5}$	Amplitude $= \frac{8}{7}$ Period $= \frac{4}{6}$ Vertical Shift $= \frac{3}{5}$	Amplitude $= \frac{6}{2}$ Period $= \frac{14}{8}$ Vertical Shift $= \frac{3}{5}$

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

$$f(x) = \frac{4}{2}\cos(\frac{7}{3}\pi x + \frac{8}{3}\pi) + \frac{7}{5}$$

A	B	C	D
Amplitude $= \frac{7}{5}$ Phase Shift $= \frac{8}{3}\pi$ left Vertical Shift $= \frac{4}{2}$	Amplitude $= \frac{4}{2}$ Phase Shift $= \frac{8}{3}$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{8}{3}$ Phase Shift $= \frac{4}{2}\pi$ left Vertical Shift $= \frac{7}{5}$	Amplitude $= \frac{4}{2}$ Phase Shift $= \frac{8}{3}\pi$ left Vertical Shift $= \frac{7}{5}$

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

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

A	B	C	D
Amplitude $= \frac{4}{5}$ Period $= \frac{4\pi}{3}$ Phase Shift $= \frac{3}{7}$ left	Amplitude $= \frac{3}{2}$ Period $= \frac{10\pi}{4}$ Phase Shift $= -\frac{3}{7}$ right	Amplitude $= \frac{4}{5}$ Period $= \frac{4\pi}{3}$ Phase Shift $= -\frac{3}{7}$ right	Amplitude $= \frac{3}{2}$ Period $= \frac{10\pi}{4}$ Phase Shift $= \frac{3}{7}$ left

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

$$f(x) = \frac{5}{3}\cos(\frac{8}{11}x + \frac{6}{3}\pi) + \frac{8}{7}$$

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