Name

Sinusoidal Function Parameters (2 Params) - Function to Parameters

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

$$f(x) = \frac{5}{7}\cos(\frac{8}{2}x + \frac{6}{5}\pi) + \frac{2}{11}$$

A $\text{Amplitude} = \frac{5}{7}$, $\text{Phase Shift} = -\frac{6}{5}\pi$ right

B $\text{Amplitude} = \frac{6}{5}$, $\text{Phase Shift} = \frac{5}{7}\pi$ left

C $\text{Amplitude} = \frac{5}{7}$, $\text{Phase Shift} = \frac{6}{5}\pi$ left

D $\text{Amplitude} = \frac{5}{7}$, $\text{Phase Shift} = \frac{6}{5}$ left

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

$$f(x) = \frac{6}{3}\cos(\frac{8}{11}\pi x + \frac{6}{5}\pi) + \frac{5}{2}$$

A $\text{Amplitude} = \frac{6}{5}$, $\text{Phase Shift} = \frac{6}{3}\pi$ left

B $\text{Amplitude} = \frac{6}{3}$, $\text{Phase Shift} = -\frac{6}{5}\pi$ right

C $\text{Amplitude} = \frac{6}{3}$, $\text{Phase Shift} = \frac{6}{5}$ left

D $\text{Amplitude} = \frac{6}{3}$, $\text{Phase Shift} = \frac{6}{5}\pi$ left

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

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

A $\text{Amplitude} = \frac{5}{3}$, $\text{Phase Shift} = \frac{4}{7}\pi$ left

B $\text{Amplitude} = \frac{5}{3}$, $\text{Phase Shift} = \frac{4}{7}\pi$ left

C $\text{Amplitude} = \frac{5}{3}$, $\text{Phase Shift} = -\frac{4}{7}\pi$ right

D $\text{Amplitude} = \frac{5}{3}$, $\text{Phase Shift} = -\frac{4}{7}\pi$ right

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

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

A $\text{Amplitude} = \frac{6}{5}$, $\text{Phase Shift} = \frac{8}{5}\pi$ left

B $\text{Amplitude} = \frac{6}{5}$, $\text{Phase Shift} = \frac{8}{5}$ left

C $\text{Amplitude} = \frac{8}{5}$, $\text{Phase Shift} = -\frac{6}{5}$ right

D $\text{Amplitude} = \frac{6}{5}$, $\text{Phase Shift} = -\frac{8}{5}$ right

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

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

A $\text{Amplitude} = \frac{5}{3}$, $\text{Vertical Shift} = \frac{4}{3}$

B $\text{Amplitude} = \frac{4}{3}$, $\text{Vertical Shift} = \frac{5}{3}$

6 What are the period and amplitude of this sinusoidal function?

$$f(x) = \frac{6}{2}\cos(\frac{4}{2}\pi x + \frac{8}{11}\pi) + \frac{4}{7}$$

A $\text{Amplitude} = \frac{6}{2}$, $\text{Period} = \frac{4}{4}$

B $\text{Amplitude} = \frac{6}{2}$, $\text{Period} = \frac{4\pi}{4}$

C $\text{Amplitude} = \frac{4}{2}$, $\text{Period} = \frac{4}{6}$

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

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

A $\text{Period} = \frac{4\pi}{8}$, $\text{Vertical Shift} = \frac{7}{2}$

B $\text{Period} = \frac{4\pi}{7}$, $\text{Vertical Shift} = \frac{8}{2}$

C $\text{Period} = \frac{4}{8}$, $\text{Vertical Shift} = \frac{7}{2}$

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

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

A $\text{Period} = \frac{4}{3}$, $\text{Vertical Shift} = \frac{2}{5}$

B $\text{Period} = \frac{4\pi}{3}$, $\text{Vertical Shift} = \frac{2}{5}$

C $\text{Period} = \frac{10}{2}$, $\text{Vertical Shift} = \frac{3}{2}$