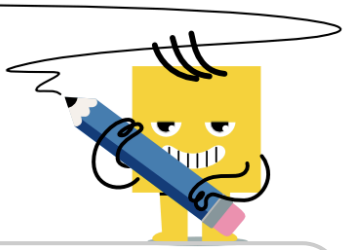
Name

Sinusoidal Function Parameters (1 Param) - Function to Parameters



1 What is the vertical shift of this sinusoidal function?

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

A Amplitude $= \frac{3}{2}$, Period $= \frac{22\pi}{8}$, Vertical Shift $= \frac{3}{11}$

B Amplitude $= \frac{3}{2}$, Period $= \frac{22}{3}$, Vertical Shift $= \frac{8}{11}$

C Amplitude $= \frac{8}{11}$, Period $= \frac{4}{3}$, Vertical Shift $= \frac{3}{11}$

D Amplitude $= \frac{3}{2}$, Period $= \frac{22}{8}$, Vertical Shift $= \frac{3}{11}$

2 What is the vertical shift of this sinusoidal function?

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

A Amplitude $= \frac{7}{5}$, Period $= \frac{14}{3}$, Vertical Shift $= \frac{5}{7}$

B Amplitude $= \frac{7}{5}$, Period $= \frac{14\pi}{3}$, Vertical Shift $= \frac{5}{7}$

C Amplitude $= \frac{7}{5}$, Period $= \frac{14\pi}{5}$, Vertical Shift $= \frac{3}{7}$

D Amplitude $= \frac{5}{7}$, Period $= \frac{14\pi}{3}$, Vertical Shift $= -\frac{7}{5}$

3 What is the period of this sinusoidal function?

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

A Amplitude $= \frac{7}{5}$, Period $= \frac{10}{6}$

B Amplitude $= \frac{6}{5}$, Period $= \frac{10}{7}$

C Amplitude $= \frac{6}{5}$, Period $= \frac{10\pi}{7}$

4 What is the period of this sinusoidal function?

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

A Amplitude $= \frac{6}{3}$, Period $= \frac{14}{5}$

B Amplitude $= \frac{6}{3}$, Period $= \frac{14\pi}{5}$

C Amplitude $= \frac{5}{7}$, Period $= \frac{6}{6}$

5 What is the period of this sinusoidal function?

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

A Amplitude $= \frac{7}{11}$, Period $= \frac{4\pi}{4}$

B Amplitude $= \frac{4}{2}$, Period $= \frac{22\pi}{7}$

C Amplitude $= \frac{7}{11}$, Period $= \frac{4}{4}$

6 What is the period of this sinusoidal function?

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

A Amplitude $= \frac{7}{5}$, Period $= \frac{10\pi}{8}$

B Amplitude $= \frac{7}{5}$, Period $= \frac{10}{8}$

7 What is the amplitude of this sinusoidal function?

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

A Amplitude $= \frac{3}{2}$, Period $= \frac{10\pi}{6}$

B Amplitude $= \frac{6}{5}$, Period $= \frac{4\pi}{3}$

C Amplitude $= \frac{6}{5}$, Period $= \frac{4}{3}$

8 What is the period of this sinusoidal function?

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

A Amplitude $= \frac{2}{3}$, Period $= \frac{14}{6}$

B Amplitude $= \frac{2}{3}$, Period $= \frac{14\pi}{6}$