



## Sinusoidal Function Parameters (3 Params) - Parameters to Function

1

Amplitude =  $\frac{4}{7}$   
 Period =  $\frac{14\pi}{3}$   
 Phase Shift =  $\frac{6}{11}\pi$  left  
 Vertical Shift =  $\frac{3}{11}$

Which sinusoidal function has these parameters?

A  $f(x) = \frac{4}{7} \sin(\frac{3}{7}x + \frac{6}{11}\pi) + \frac{3}{11}$   
 B  $f(x) = \frac{6}{11} \sin(\frac{3}{7}x + \frac{4}{7}\pi) + \frac{3}{11}$

2

Amplitude =  $\frac{8}{3}$   
 Period =  $\frac{10}{5}$   
 Phase Shift =  $\frac{5}{3}$  left  
 Vertical Shift =  $\frac{2}{5}$

Which sinusoidal function has these parameters?

A  $f(x) = \frac{4}{5} \sin(-\frac{8}{3}\pi x + \frac{5}{3}) + \frac{2}{5}$   
 B  $f(x) = -\frac{8}{3} \sin(\frac{4}{5}\pi x + \frac{5}{3}) + \frac{2}{5}$

3

Amplitude =  $\frac{4}{7}$   
 Period =  $\frac{10\pi}{4}$   
 Phase Shift =  $2\pi$  left  
 Vertical Shift =  $\frac{7}{2}$

Which sinusoidal function has these parameters?

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

4

Amplitude =  $\frac{6}{7}$   
 Period =  $\frac{2}{3}$   
 Phase Shift =  $\frac{8}{3}\pi$  left  
 Vertical Shift =  $\frac{6}{11}$

Which sinusoidal function has these parameters?

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

5

Amplitude = 3  
 Period =  $\frac{4\pi}{3}$   
 Phase Shift =  $\frac{5}{2}$  left  
 Vertical Shift =  $\frac{6}{7}$

Which sinusoidal function has these parameters?

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

6

Amplitude = 1  
 Period =  $\frac{10}{8}$   
 Phase Shift =  $\frac{3}{7}$  left  
 Vertical Shift =  $\frac{6}{11}$

Which sinusoidal function has these parameters?

A  $f(x) = -1 \cos(\frac{8}{5}\pi x + \frac{3}{7}) + \frac{6}{11}$   
 B  $f(x) = -1 \cos(\frac{8}{5}\pi x + \frac{3}{7}\pi) + \frac{6}{11}$

7

Amplitude =  $\frac{8}{7}$   
 Period =  $\frac{6}{7}$   
 Phase Shift =  $\frac{7}{5}\pi$  left  
 Vertical Shift = 4

Which sinusoidal function has these parameters?

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

8

Amplitude =  $\frac{2}{7}$   
 Period =  $\frac{2}{4}$   
 Phase Shift =  $\frac{5}{2}$  left  
 Vertical Shift =  $\frac{8}{5}$

Which sinusoidal function has these parameters?

A  $f(x) = \frac{2}{7} \sin(4\pi x + \frac{5}{2}) + \frac{8}{5}$   
 B  $f(x) = \frac{2}{7} \sin(\frac{5}{2}\pi x + 4) + \frac{8}{5}$