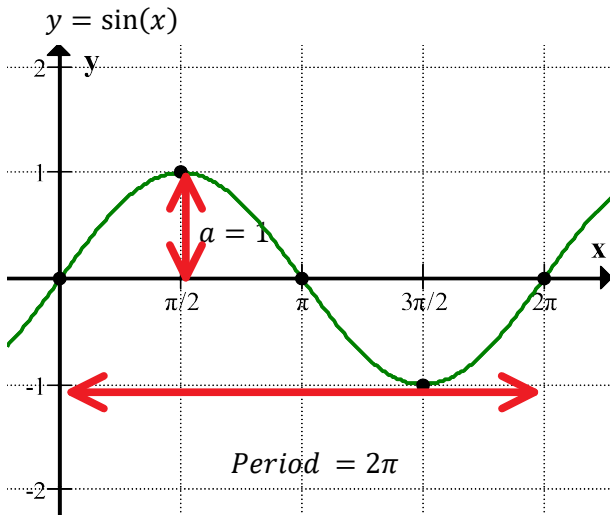


C12 - 5.2 - (a,b) Sine Transformations Notes

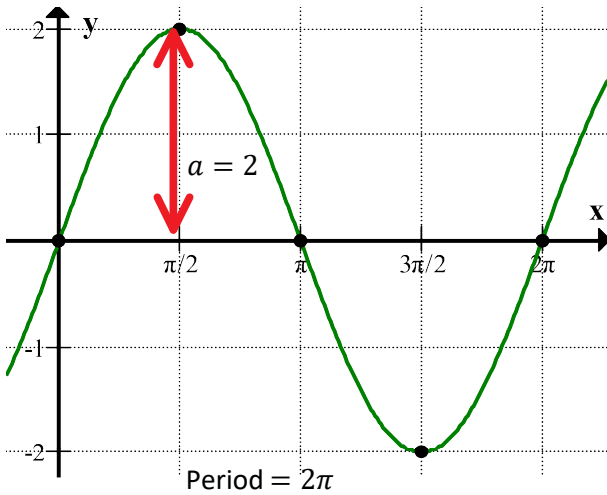
$$y = a \sin(b(x - c)) + d$$

Amplitude
Period = $\frac{2\pi}{b}$
Phase Shift
Center Line



Amplitude Change

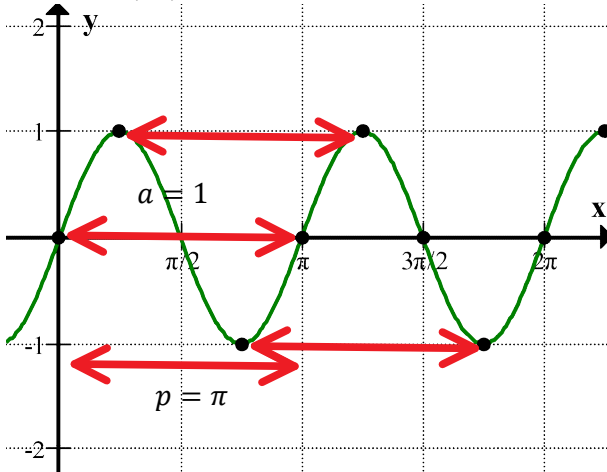
$y = 2 \sin(x)$



$VE = 2$

Period Change

$y = \sin(2x)$



$HC = \frac{1}{2}$

$$p = \frac{2\pi}{b}$$

$$p = \frac{2\pi}{2}$$

$$p = \pi$$