

$$y = A \sin(B(x - C)) + D$$

↑  
VERTICAL  
STRETCH  
CONTROLS  
Amplitude

↑  
HORIZONTAL  
STRETCH  
CONTROLS  
PERIOD  
 $360/B =$

↑  
HORIZONTAL  
SHIFT  
CONTROLS  
Left/Right

↑  
VERTICAL  
SHIFT  
CONTROLS  
UP/DOWN

USE "D" TO FIND CLA

USE "A" TO FIND MAX AND MIN

USE "C" TO MOVE (0,0) POINT  
(middle of "up") → (C, D)

USE "B" TO FIND NEW x VALUES