1. Go to [www.geogebra.org](http://www.geogebra.org)
2. Click Download.
3. Click Applet start. Geogebra should open in a new tab.
4. Create four sliders labeled a, b, c, and d.
   1. Change the range from -2 to 10 and the increment of .5
5. In the input bar, type in y=a sin(bx-c)+d

**Slider A**

1. What happens to the graph as you move the slider to the right?
2. What happens to the graph as you move the slider to the left with the value bigger than zero?
3. What happens when the slider is negative?
4. We call this part of the equation the *amplitude*.
5. What is the amplitude?

**Slider B**

1. What happens as you move the slider to the right?
2. What happens as you move the slider to the left?
3. This is what we call the period

**Slider C**

**Slider D**