**What is a Wave? Post-Assessment Key**

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| **Directions** |
| Answer the following questions the best you can. This is a graded assignment. |

Given the equation for a sine wave below, answer the following questions:

$$y\left(t\right)=4.5\sin(\left(6πt+45\right)-15)$$

1. What is the **frequency** of the wave?

6\*pi / 2\*pi = **3**

1. What is the **phase angle** of the wave, and how does this phase angle affect the graph of the wave? -45, the wave is shifted to the **left** by 45

Given the plot for a sine wave below, answer the following questions (assume the phase angle and vertical shift are equal to 0):



1. What is the amplitude of the sine wave?

3

1. What is the frequency of the sine wave? How did you calculate it?

1, there is exactly one cycle per second