

Name:

Date:

Class:

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

### 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:

$$y(t) = 4.5 \sin(6\pi t + 45) - 15$$

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

$6 \cdot \pi / 2 \cdot \pi = 3$

2. 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):



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3. What is the amplitude of the sine wave?

3

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

1, there is exactly one cycle per second