

Applications of Sinusoidal Functions

1. The picture is a sinusoidal signal. Your students draw conclusions that position is sinusoidal as a function. This concludes the lesson which provides the picture

Students add the signal to the graph again, representing the time axis.

Students find the amplitude and period of the function and sketch the function.

$$y = 1.5 \sin(2\pi x)$$

where the time axis is the x-axis, and the y-axis is the displacement (in cm) of the piston from its rest position.

- What is the amplitude of this sinusoidal function? Interpret this in the context of the problem.
- What is the period of this sinusoidal function? Interpret this in the context of the problem.
- If the piston oscillates at regular intervals at this rate per second, how many oscillations would there be after one second (1 sec)?
- Generate a graphing device for a sine wave of this function.
- Many engineers use circular systems. This means that a piston is attached to the crank shaft, and the displacement of the shaft is sinusoidal. (See the figure above, and graph below.) If the crank shaft rotates at a constant rate, the displacement of the piston is sinusoidal. In this case, if the crank shaft rotates at a constant rate, the displacement of the piston is sinusoidal.

$$y = 1.5 \sin(2\pi x)$$

- What is the amplitude of this function?
- What is the period of this function?
- What is the frequency of this function?



Figure 1: A piston and crankshaft mechanism.

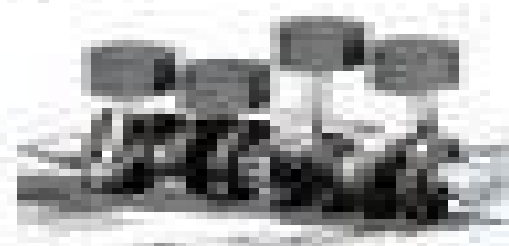


Figure 2: A piston and crankshaft mechanism.



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