

Applications of Sinusoidal Functions

1. The picture is a sinusoidal wave, that oscillates above and below the horizontal axis. The wave starts at the origin, which is marked by the point

Findings: what this graph tells us is that, again, it represents many things going on.

Suppose that you are looking at a graph of a function, and you are trying to understand the meaning of this function.

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

where the first parameter, 2 , is the amplitude of the function, and the second parameter, 2 , is the period of the function.



Figure 1: A graph of the function $y = 2 \sin(2x)$.

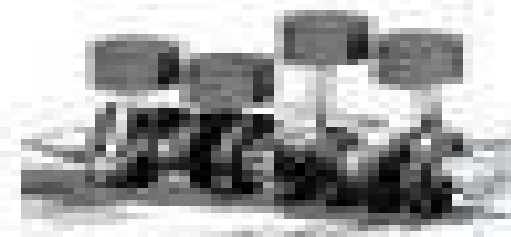


Figure 2: A photograph of a Ferris wheel.

- 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 picture represents an actual device, like a Ferris wheel, how many revolutions would the wheel make over the course of one full rotation?
- Describe a possible situation for a real-world system of this function.
- Many engineers use circular systems. This means that a point is a distance r from the origin, and the angle measured from the positive x-axis to the line segment connecting the origin to the point is θ . (See the figure below, and graph below.) If we know either the radius r or the angle θ , then we can find the coordinates of the point. (See the figure below, and graph below.)

$$r = 2 \sin(2x)$$

$$r = \frac{1}{2} \sin(2x)$$



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K Payea

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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