Year End Review: Sinusoidal Functions (Unit 5)

To convert angles from radians to degrees and degrees to radians, use the ratio of $180^{\circ}/\pi$.

Example 1: Convert 120° into radians.

$$120 \times \frac{\pi}{180} = \frac{120\pi}{180} = 2.09$$

Example 2: Convert 1.43 into degrees.

The horizontal line halfway between the maximum and minimum values of a periodic function is called a midline. The amplitude is the distance from the midline to either the maximum or minimum value of a periodic function. The amplitude is always expressed as a positive number. The length of the interval of the domain to complete one cycle is called the period.

Example 3: Determine the midline, amplitude, period, and range of the following sinusoidal functions.

