A function whose graph repeats in regular intervals or cycles is called a periodic function. The functions $y=\sin x$ and $y=\cos x$ are periodic. The graphs of these two periodic functions have common characteristics.

$$
y=\sin x
$$

$$
y=\cos x
$$






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.

