

7.1 Amplitude and Period Notes

EQ: What is the effect of changing the amplitude and period of a sinusoidal function?

Sine Parent
Function

Cycle

Section of a periodic graph before it repeats

Period

number of degrees or radians for the graph to complete one cycle

Cosine Parent
Function

Sinusoidal Axis

vertical middle of the graph

Amplitude

distance from the sinusoidal axis to highest or lowest point

Critical Points

period/4

Ex. Graph 2 cycles

1. $y = 4 \sin \theta$

2. $y = \cos 3\theta$

3. $y = 8 \sin \frac{1}{2} x$

Summary