Daily Agenda

Learning Target: I can graph sine and cosine functions with changes to amplitude and period.

Today

Mastery Quiz
Graphing Notes
Circuit

Homework

8.2 Worksheet

Assessments

Unit Circle Mastery
8.1 to 8.2 Quiz - No Calc

Today you are you, that is truer than true. There is no one alive that is youer than you. - Dr. Suess

Nov 15-8:24 PM

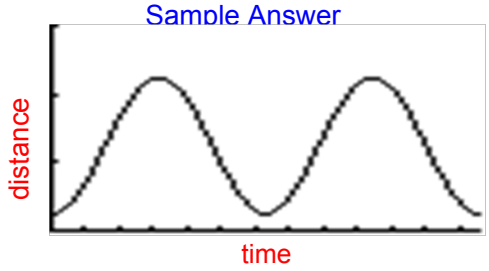
8.2 Periodic Functions

periodic function

- y-values repeat at regular intervals
- "As you ride the ferris wheel, your distance from the ground depends on how long you've been riding." Sketch a graph to illustrate.

Feb 9-11:33 AM

Sample Answer



Feb 9-11:33 AM

8.2 Graphing Trig Functions

trig function

y=cosθ, critical points are angles (0°,90°,180°,270°,360°)

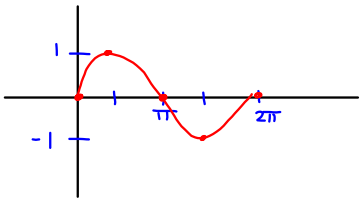
circular function

y=cosx, critical points are radians $0, \frac{\pi}{2}, \pi, \frac{3\pi}{2}, 2\pi$

Feb 27-7:48 AM

Graph

y=sinx

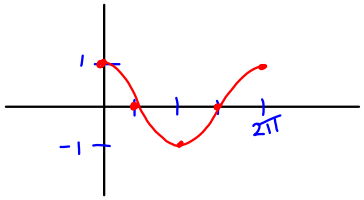


x	y
0	0
π/2	1
π	0
3π/2	-1
2π	0

Feb 27-7:48 AM

Graph

y=cosx



x	y
0	1
π/2	0
π	-1
3π/2	0
2π	1

Feb 27-7:48 AM

y=AsinB(x)

amplitude
distance from middle to high or low point (always positive).
A=amplitude (always positive)

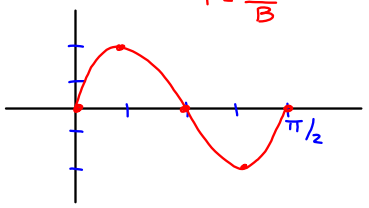
period
the length of one cycle. how often the graph repeats.
$2\pi/B$ = period of sinx or cosx
(divide period into 4 equal increments)

Mar 5-7:10 AM

Graph

y=2sin4x

$A = 2$ $P = \frac{2\pi}{B}$ $\frac{2\pi}{4} = \frac{\pi}{2} = P$



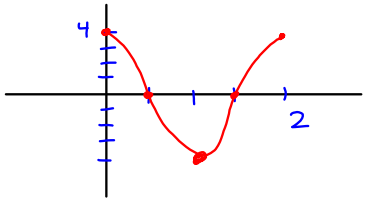
x	y
0	0
π/8	2
π/4	0
3π/8	-2
π/2	0

Feb 27-7:48 AM

Graph

y=4cosπx

$A = 4$ $P = \frac{2\pi}{\pi} = 2$



x	y
0	4
1/2	0
1	-4
3/2	0
2	4

Feb 27-7:48 AM