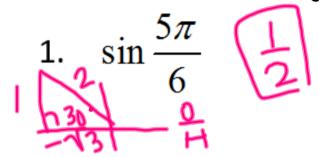
2.1 Amplitude & Period

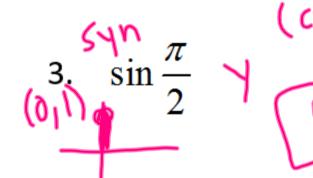
Warm-Up Monday

Find the exact value.



2.
$$\cos 0$$



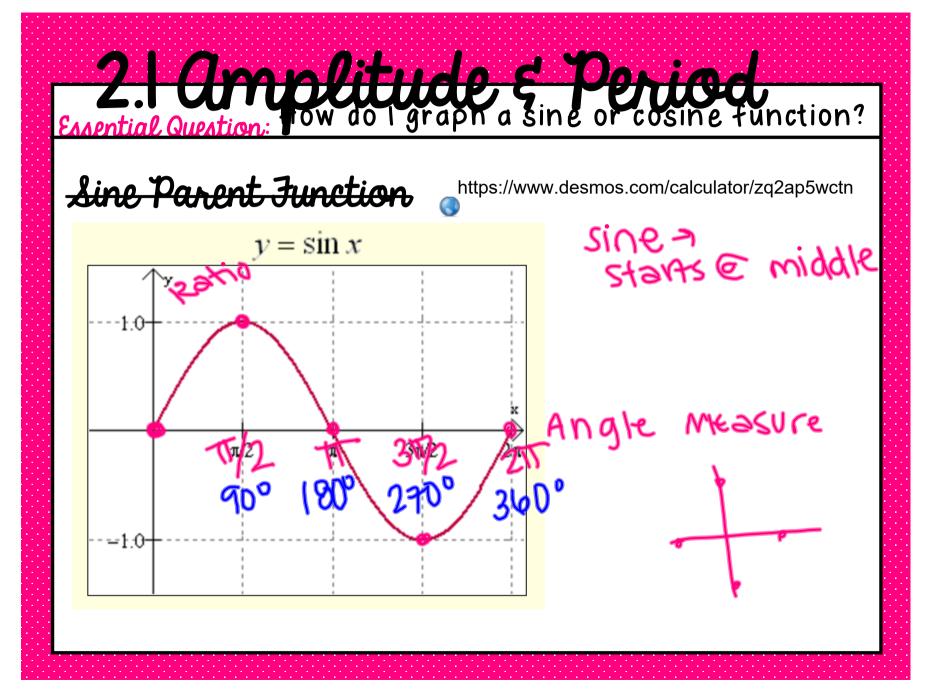


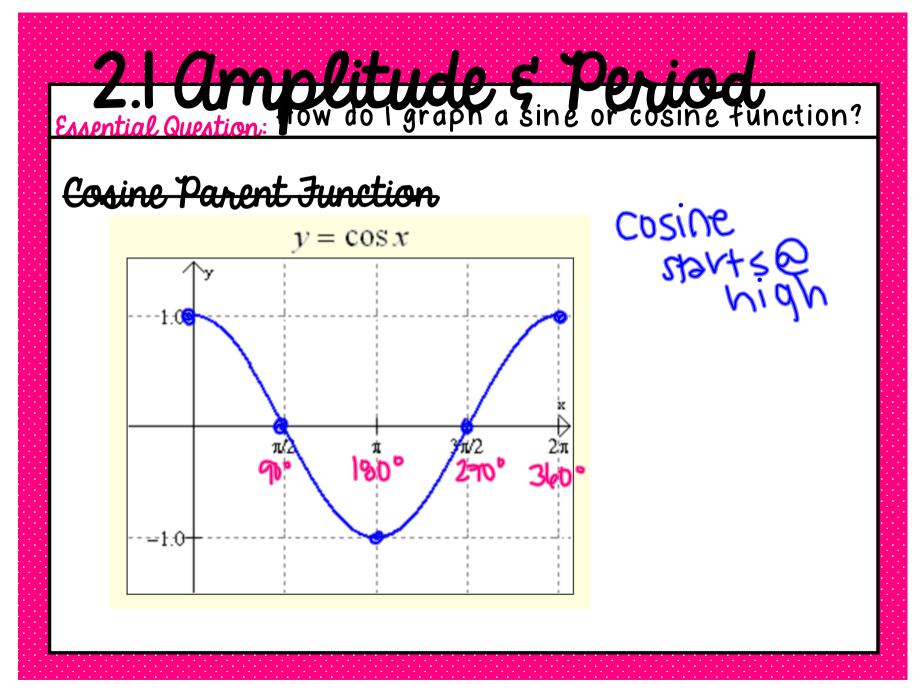
4. $\cos \pi$



about Me:

- 1. How do you usually spend your time after school?
- 2. Would you rather always be too young or too old?

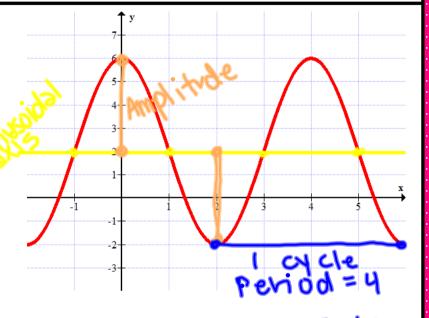




row do I graph a sine or cosine function? Essential Question:

Sinusoidal Axis: The midline of a sine or cosine wave

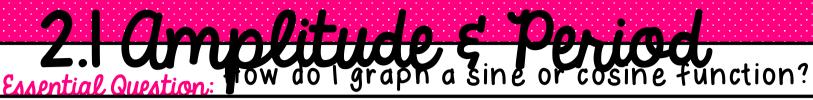
Distance from the sinusoidal axis to the top or bottom of the graph



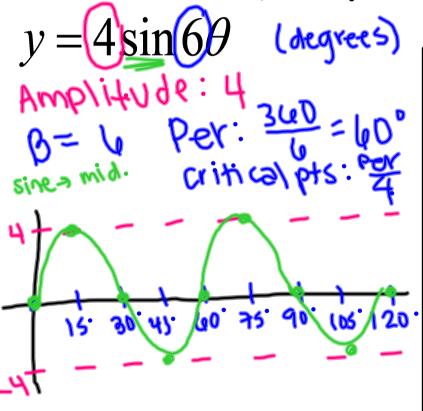
Number of degrees or radians to complete a cycle

2. amplitude & Period Expertise Overtion: Tow do I graph a sine or cosine function?

https://www.desmos.com/calculator/xj0syxnnop



ex#1. Sketch 2 complete cycles. Label all critical points.



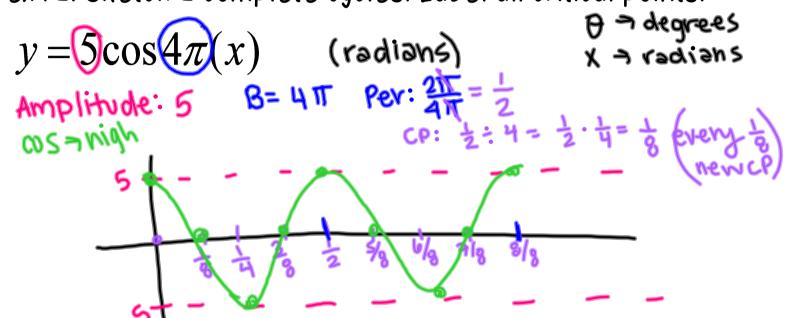
To find amplitude...

coefficient of
sin or cos (a)

To find period...

2.1 amplitude & Period ential Question: Fow do I graph a sine or cosine function?

ex#2. Sketch 2 complete cycles. Label all critical points.



2.1 Amplitude and Period



Sketch two complete cycles of each graph. Label all critical points.

1.
$$y = 3\sin 5\theta$$
 (degrees)

2.
$$y = 12\cos\frac{3}{4}\theta$$
 (degrees)

3.
$$y = 3\sin\frac{\pi}{4}x$$
 (radians)

4.
$$y = 7\cos 2x$$
 (radians)

5.
$$y = 20\cos\frac{1}{3}x$$
 (radians)

6.
$$y = 5\sin 4\pi x$$
 (radians)

7.
$$y = 8 \sin \frac{\pi}{5} x$$
 (radians)

8.
$$y = 10\cos\frac{1}{6}x$$
 (radians)

2.1 amplitude & Period Leantical Quarties From a 0 1 graph a sine or cosine function?

Closing

You Will receive either a graph or an equation. Find your match!! On your weekly sheet, write down the LETTER & NUMBER of you and your partner's equation and graph.