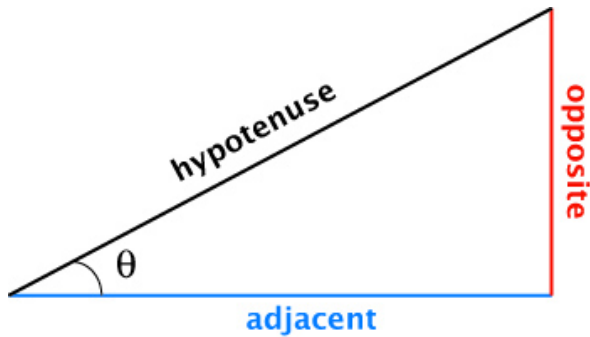


Assignment #1: Take Notes on the information below. You need to memorize these.

Trig. Identities



Sine

$$\sin \theta = \frac{O}{H}$$

Cosine

$$\cos \theta = \frac{A}{H}$$

Tangent

$$\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{O}{A}$$

Cosecant

$$\csc \theta = \frac{1}{\sin \theta} = \frac{H}{O}$$

Secant

$$\sec \theta = \frac{1}{\cos \theta} = \frac{H}{A}$$

Cotangent

$$\cot \theta = \frac{1}{\tan \theta} = \frac{A}{O}$$

Assignment #2: Find the following exact trig values using your Unit Circle (no decimals).

1. $\sin \frac{2\pi}{3}$

2. $\csc \frac{2\pi}{3}$

3. $\cos(-225^\circ)$

4. $\sec(-225^\circ)$

5. $\tan \frac{11\pi}{6}$

6. $\cot \frac{11\pi}{6}$

7. $\cos \frac{\pi}{3} + \sin \frac{\pi}{2}$

8. $\cos \frac{\pi}{4} + \sin \frac{3\pi}{4}$

9. $\csc(-330^\circ)$

10. $\sec \frac{5\pi}{6}$

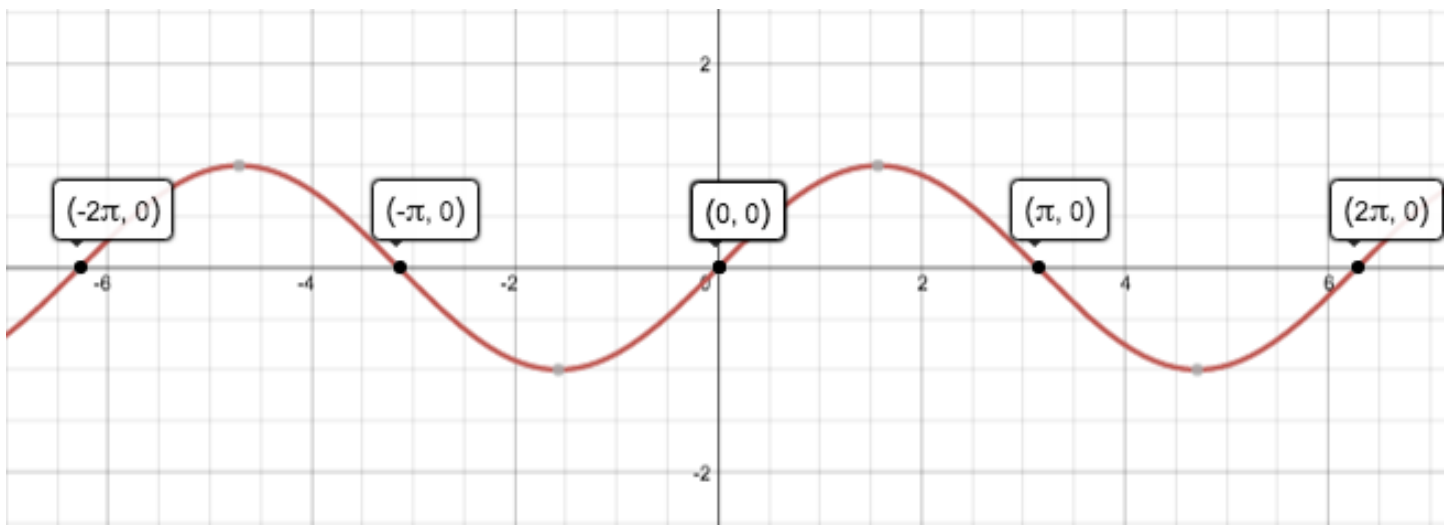
Assignment #3:

Find the amplitude and period of the following trig functions.

1. $f(x) = 3 \sin\left(\frac{2}{3}x\right)$
2. $f(x) = \frac{1}{2} \cos(4x)$
3. $f(x) = -5 \sin(-3x)$
4. $f(x) = -2 \cos(5x)$
5. $f(x) = 7 \sin(-6x)$

Assignment #4: Find the amplitude and period of the following trig functions. Then write the function.

1.

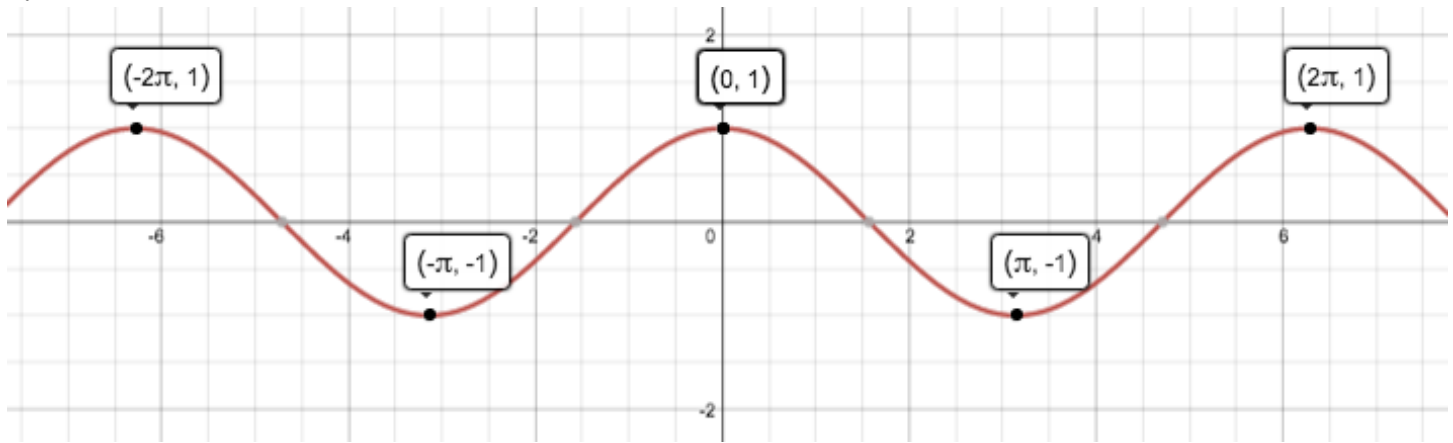


Amplitude:

Period:

Function:

2.

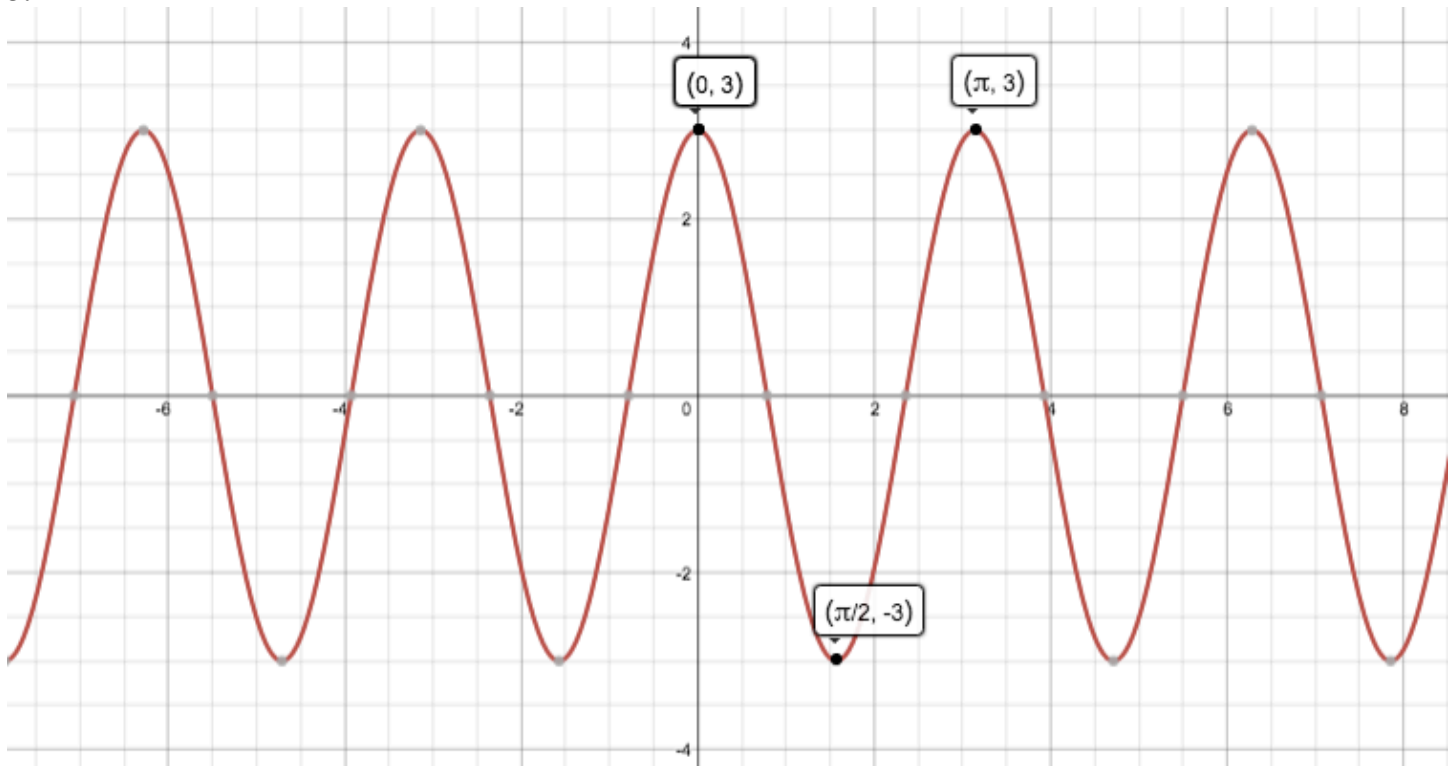


Amplitude:

Period:

Function:

3.

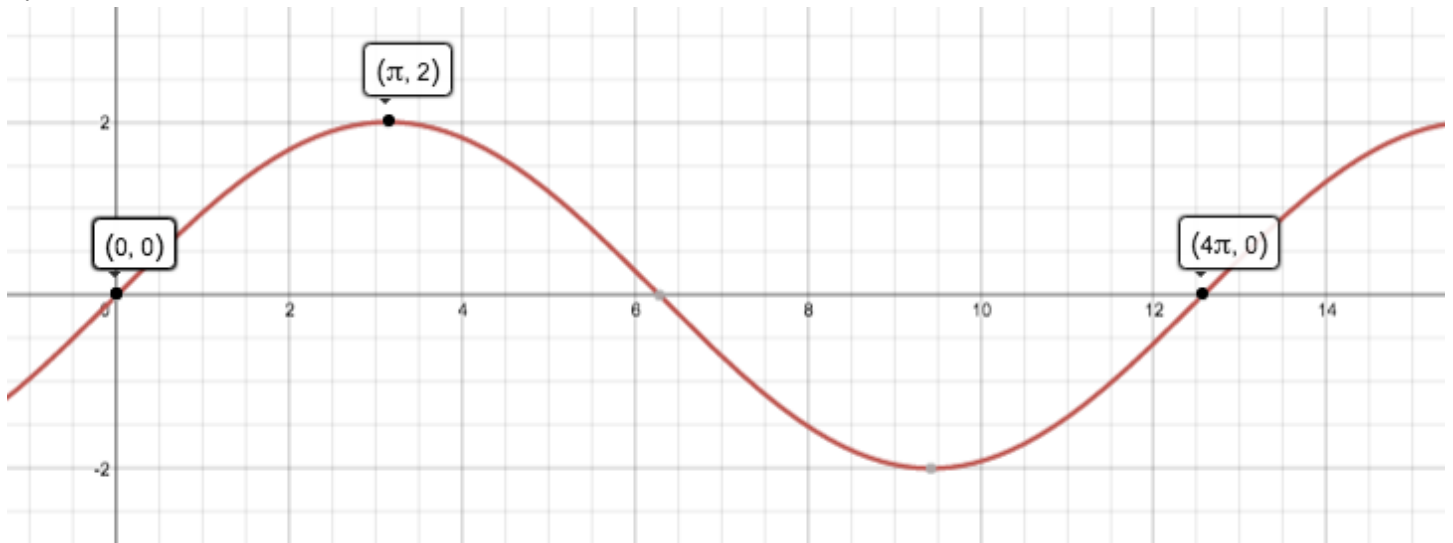


Amplitude:

Period:

Function:

4.



Amplitude:

Period:

Function:

Assignment #5: Find the angle of smallest possible positive measure that is coterminal with the given angle.

1. -300°
2. $\frac{21\pi}{4}$
3. 750°
4. $-\frac{4\pi}{3}$
5. -225°

Assignment #6: Trace the Unit Circle & give yourself 7 minutes to fill it in with out a calculator. When you are done, check your Unit Circle for accuracy.