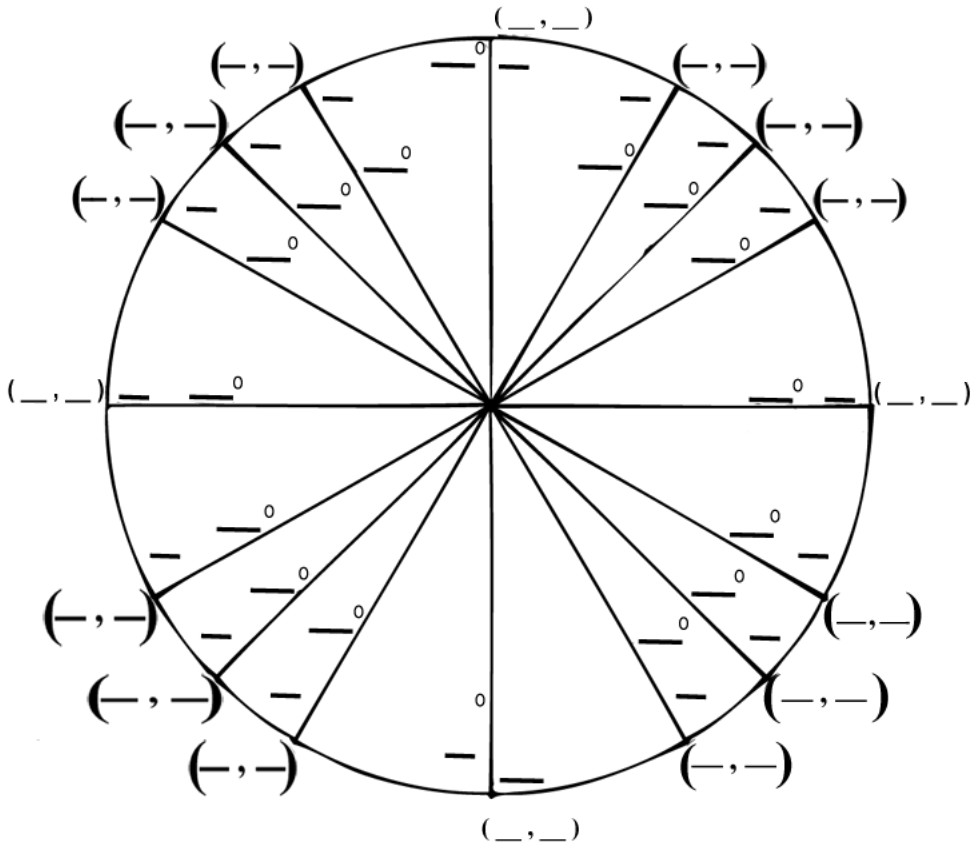
1. Please complete the unit circle:
Meaning Put In all coordinates, degrees, and radians



2. List the three Pythagorean Identities:

1.
2.
3.

3. Give a function equivalent to what is given:

a) $\sin(-x) =$

b) $\cot(x - \frac{\pi}{2}) =$

4. Evaluate Exactly, without decimals: *(if undefined, write UND)*

a) $\sin(\frac{17\pi}{2}) =$

b) $\cos(-315°) =$

c) $\cos^{-1}(\frac{\sqrt{3}}{2}) =$

d) $\tan(405°) =$

e) $\arctan(1) =$

f) $\cot(3\pi) =$

g) $\csc^{-1}(2) =$

h) $\sec(\frac{7\pi}{6}) =$

i) $\sin^{-1}(0) =$

j) $\tan(\frac{11\pi}{6}) =$

k) $\text{arccot}(-1) =$

l) $\sec^{-1}(0) =$

5. What is $\sin(\tan^{-1}(x))$?

6. For The following, write the letter of the graph corresponding to its equation.

a) $y = \cos(x)$

b) $y = 2\sin(\frac{5}{6}x)$

c) $y = -\cos(x - \frac{5\pi}{4}) + 1$

d) $y = \frac{1}{2}\sin(2x) + \frac{1}{2}$

e) $y = \frac{2}{3}\cos(x + \frac{3\pi}{4}) - 1$

f) $y = -\frac{1}{3}\sin(3(x + \frac{\pi}{3}))$

7. State the Period, Amplitude and all Shifts of the following functions:

a) $y = 12\cos(\frac{3\pi}{8}x) + 3$

Amplitude:

Period:

Vertical Shift:

Horizontal Shift:

b) $y = -(\frac{2}{3})\sin(x + \frac{2\pi}{6}) - 2$

Amplitude:

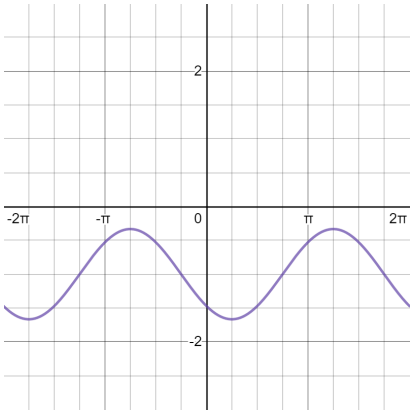
Period:

Vertical Shift:

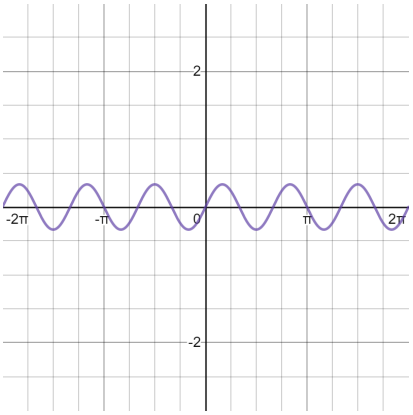
Horizontal Shift:

GRAPHS For #6

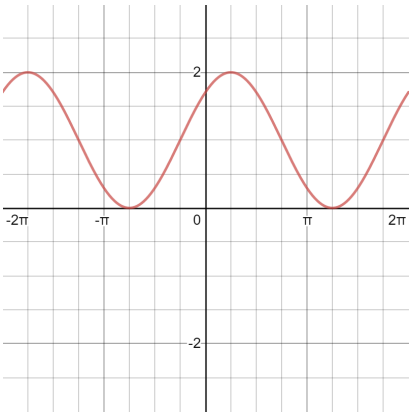
A)



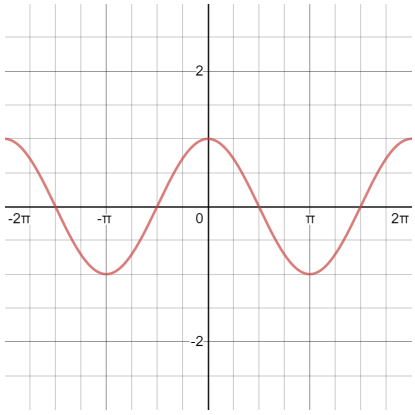
B)



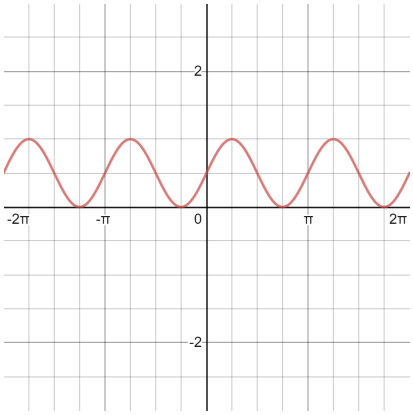
C)



D)



E)



F)