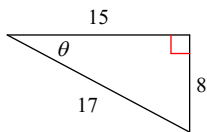


## Trig Review 2017

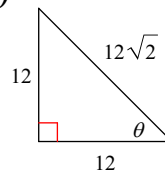
Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the value of the trig function indicated.**

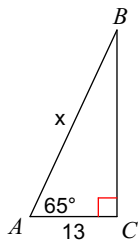
1)  $\tan \theta$



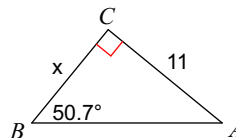
2)  $\sin \theta$

**Find the measure of each side indicated. Round to the nearest tenth.**

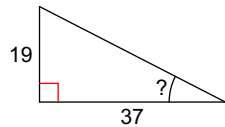
3)



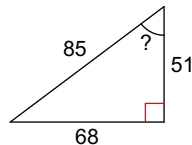
4)

**Find the measure of the indicated angle to the nearest degree.**

5)



6)

**Convert each degree measure into radians.**

7)  $-70^\circ$

8)  $-240^\circ$

**Convert each radian measure into degrees.**

9)  $-\frac{11\pi}{12}$

10)  $\frac{\pi}{3}$

**Find a coterminal angle between  $0^\circ$  and  $360^\circ$ .**

11)  $-615^\circ$

12)  $-646^\circ$

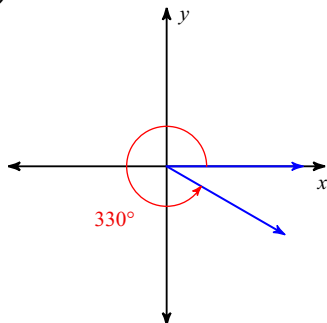
**Find a coterminal angle between 0 and  $2\pi$  for each given angle.**

13)  $-\frac{10\pi}{3}$

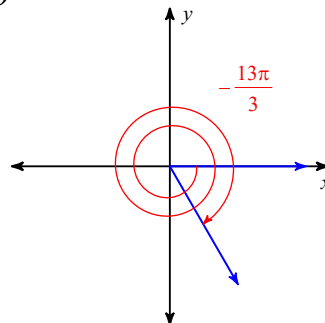
14)  $-\frac{\pi}{3}$

**Find the exact value of each trigonometric function.**

15)  $\sin \theta$



16)  $\sin \theta$



17)  $\sin -150^\circ$

18)  $\sin 450^\circ$

19)  $\sin \frac{35\pi}{6}$

20)  $\sin -5\pi$

**Use a calculator to find each. Round your answers to the nearest ten-thousandth.**

21)  $\cos 26^\circ$

22)  $\cos -190^\circ$

23)  $\cos -\frac{11\pi}{18}$

24)  $\cos \frac{7\pi}{6}$

**Using radians, find the amplitude and period of each function. Then graph.**

25)  $y = 2\sin \theta + 1$

26)  $y = 4\cos \theta - 2$

27)  $y = \cos \left( \theta + \frac{\pi}{2} \right) + 2$

28)  $y = 3\cos \left( \theta + \frac{\pi}{4} \right) + 1$

29)  $y = 2 + 4\sin 2\theta$

30)  $y = -1 + \sin \theta$

31) Write the equation of a cosine curve which has a period of  $\frac{\pi}{3}$  and an amplitude of 2.

32) Write an equation of a sine curve which has a period of 4, a maximum value at 8, and a minimum value at 2.

33) There will be one word problem that is similar to the packet we reviewed today (Applications of Sine & Cosine functions.)

# Answers to Trig Review 2017 (ID: 1)

1)  $\frac{8}{15}$

2)  $\frac{\sqrt{2}}{2}$

3) 30.8

4) 9

5)  $27^\circ$

6)  $53^\circ$

7)  $-\frac{7\pi}{18}$

8)  $-\frac{4\pi}{3}$

9)  $-165^\circ$

10)  $60^\circ$

11)  $105^\circ$

12)  $74^\circ$

13)  $\frac{2\pi}{3}$

14)  $\frac{5\pi}{3}$

15)  $-\frac{1}{2}$

16)  $-\frac{\sqrt{3}}{2}$

17)  $-\frac{1}{2}$

18) 1

19)  $-\frac{1}{2}$

20) 0

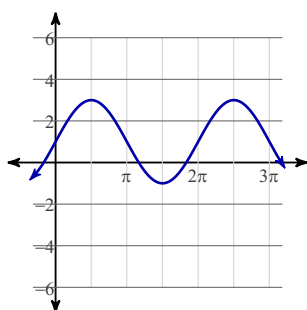
21) 0.8988

22) -0.9848

23) -0.3420

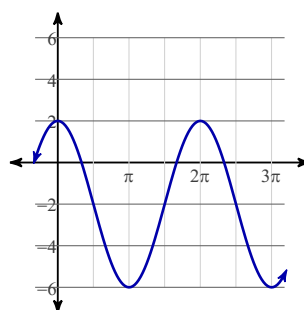
24) -0.8660

25)



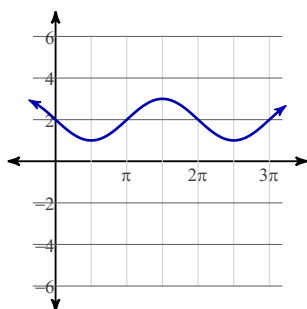
Amplitude: 2  
Period:  $2\pi$

26)



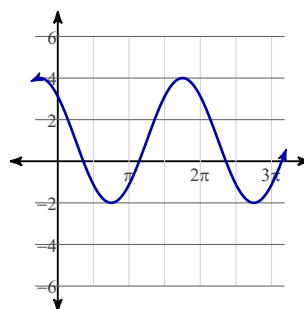
Amplitude: 4  
Period:  $2\pi$

27)



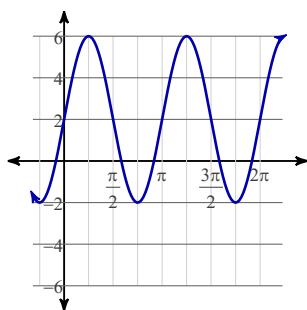
Amplitude: 1  
Period:  $2\pi$

28)



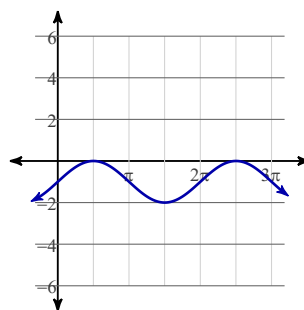
Amplitude: 3  
Period:  $2\pi$

29)



Amplitude: 4  
Period:  $\pi$

30)



Amplitude: 1  
Period:  $2\pi$

31)  $y = 2\cos 6x$

32)  $y = 3\sin \frac{\pi}{2} \cdot \theta + 5$

33)