

## Unit 10 Test Review

For Questions 1 & 2, rewrite the radian measures in degrees.

1.  $\frac{5\pi}{6}$

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

For Questions 3-5, rewrite the degree measures in radians.

3.  $-575^\circ$

4.  $1235^\circ$

5.  $-135^\circ$

For Questions 6-11, find the *exact* value of each trigonometric function.

6.  $\cos\left(\frac{\pi}{3}\right)$

7.  $\sin(315^\circ)$

8.  $\cot(-60^\circ)$

9.  $\csc\left(\frac{7\pi}{3}\right)$

10.  $\sec\left(\frac{\pi}{4}\right)$

11.  $\cot\left(\frac{5\pi}{4}\right)$

For problems 12-15, find two angles that are coterminal with the given angle measure. One of your answers should be a positive angle and one should be a negative angle.

12.  $235^\circ$

13.  $1155^\circ$

14.  $\frac{5\pi}{4}$

15.  $\frac{13\pi}{6}$

For 16-19, find the sine and cosine of the angle in standard position on a unit circle given point P on the terminal side of that angle.

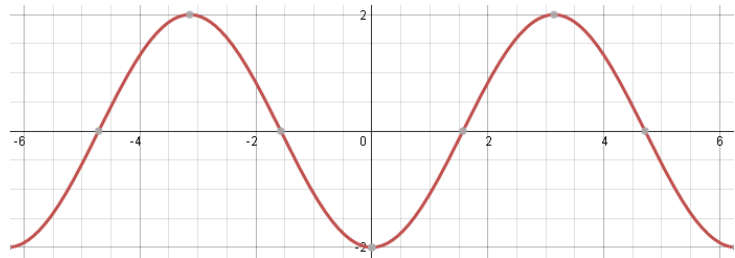
16.  $P\left(-\frac{4}{5}, -\frac{3}{5}\right)$   $\sin \theta =$   $\cos \theta =$

17.  $P\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$   $\sin \theta =$   $\cos \theta =$

18.  $P\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$   $\sin \theta =$   $\cos \theta =$

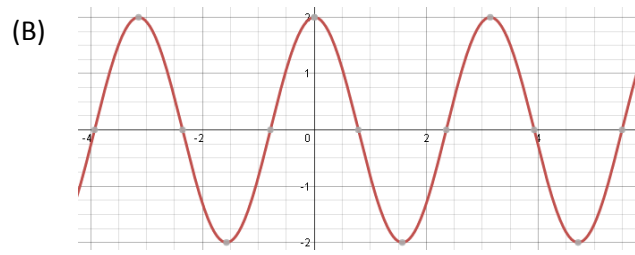
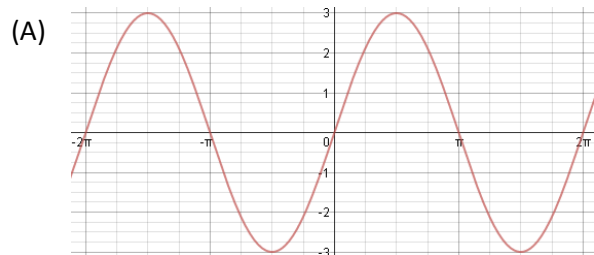
19.  $P\left(-\frac{9}{41}, -\frac{40}{41}\right)$   $\sin \theta =$   $\cos \theta =$

20. Use the graph at the right.



- What **term** is used to describe how high or low a graph changes? \_\_\_\_\_
- What **term** is used to describe how long it takes for the function to repeat? \_\_\_\_\_
- Find the period of the function. \_\_\_\_\_
- Find the amplitude of the function. \_\_\_\_\_

21. Use the following two graphs to answer the questions.



Period: \_\_\_\_\_

Period: \_\_\_\_\_

Amplitude: \_\_\_\_\_

Amplitude: \_\_\_\_\_

Is graph (A) a sine function or cosine function? How do you know?

Is graph (B) a sine function or cosine function? How do you know?