

## Final Review: Trigonometry Unit 7

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

**State the quadrant in which the terminal side of each angle lies.**

1)  $-\frac{5\pi}{6}$

2)  $282^\circ$

**Convert each degree measure into radians and each radian measure into degrees.**

3)  $-\frac{13\pi}{12}$

4)  $-300^\circ$

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

5)  $\cos -\frac{2\pi}{3}$

6)  $\csc \frac{2\pi}{3}$

7)  $\sin \frac{3\pi}{2}$

8)  $\cos \pi$

9)  $\cos -\frac{\pi}{6}$

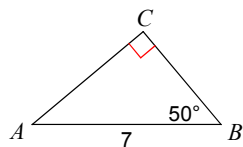
10)  $\sin \frac{\pi}{4}$

11)  $\cot -\frac{\pi}{4}$

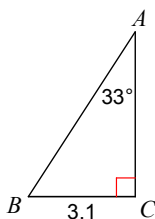
12)  $\sec 90^\circ$

**Solve each triangle. Round answers to the nearest tenth.**

13)

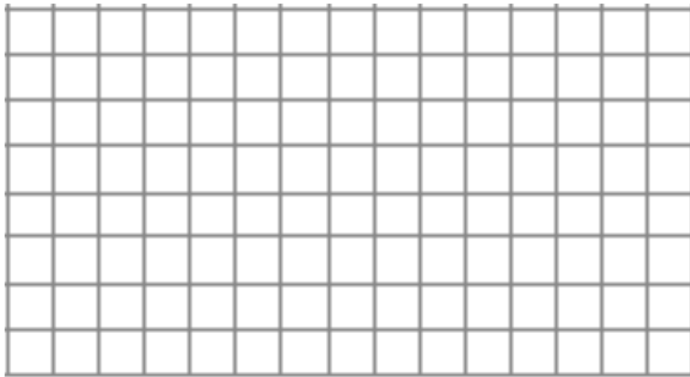


14)



**Graph each function. State the domain, range, period, amplitude, and midline.**

15)  $y = 2\sin 3\theta$



Domain:

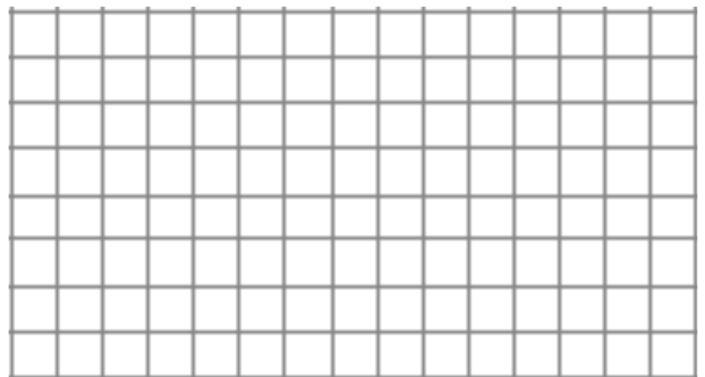
Range:

Period:

Amplitude:

Midline:

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



Domain:

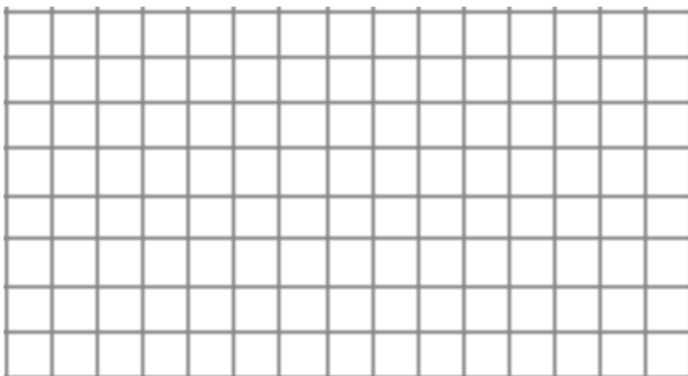
Range:

Period:

Amplitude:

Midline:

17)  $y = \tan\left(\theta + \frac{\pi}{6}\right) + 1$



Domain:

Range:

Period:

Amplitude:

Midline:

18) If  $(-3, 5)$  is on the terminal side of  $\theta$ , evaluate  $\sin \theta$ .

## Answers to Final Review: Trigonometry Unit 7

1) III

2) IV

3)  $-195^\circ$

4)  $-\frac{5\pi}{3}$

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

6)  $\frac{2\sqrt{3}}{3}$

7)  $-1$

8)  $-1$

9)  $\frac{\sqrt{3}}{2}$

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

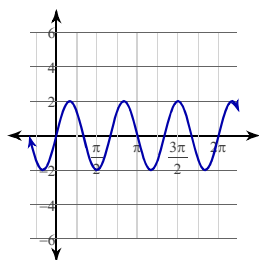
11)  $-1$

12) Undefined

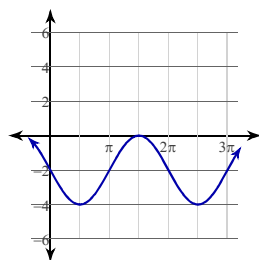
13)  $m\angle A = 40^\circ$ ,  $b = 5.4$ ,  $a = 4.5$

14)  $m\angle B = 57^\circ$ ,  $b = 4.8$ ,  $c = 5.7$

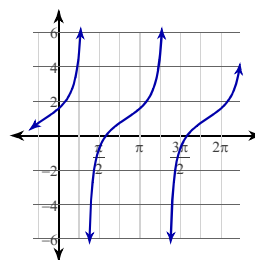
15)



16)



17)



18)  $\frac{5\sqrt{34}}{34}$

