Unit 6 Final Review

Date Period

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

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

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

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

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)
$$\cos \pi$$

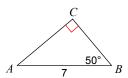
9)
$$\cos -\frac{\pi}{6}$$

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

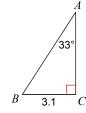
11)
$$\cot -\frac{\pi}{4}$$

Solve each triangle. Round answers to the nearest tenth.

13)

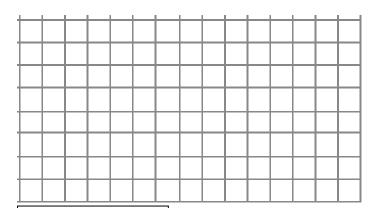


14)



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

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



Domain:

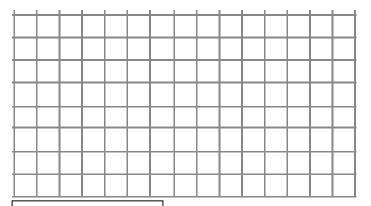
Range:

Period:

Amplitude:

Midline:

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



Domain:

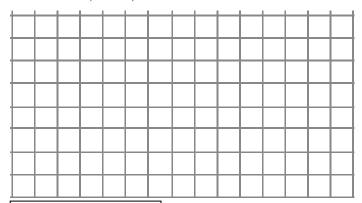
Range:

Period:

Amplitude:

Midline:

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



Domain:

Range:

Period:

Amplitude:

Midline:

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

Answers to Unit 6 Final Review

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

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

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

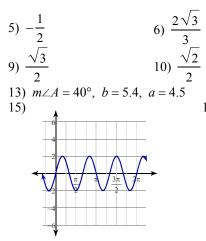
9)
$$\frac{\sqrt{3}}{2}$$

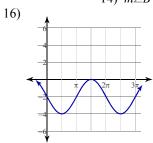
10)
$$\frac{\sqrt{2}}{2}$$

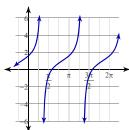
13)
$$m \angle A = 40^{\circ}$$
, $b = 5.4$, $a = 4.5$

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









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