

SLO – Trig Review Answers

1. 115.84 m^2

2. 34.81 km^2

3. $b = 4.6, c = 4.8, C = 68^\circ$

4. $a = 24.0 \text{ cm}, c = 21.1 \text{ cm}, B = 19^\circ$

5. $b = 29.5, C = 21.7^\circ, A = 123.3^\circ$

6. $A = 89.8^\circ, B = 49.9^\circ, C = 40.3^\circ$

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

8. $\frac{5\pi}{12}$

9. $\frac{31\pi}{18}$

10. 36°

11. 67.5°

12. 432°

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

14. $\theta = \frac{\pi}{4}, \frac{5\pi}{4}$

15. $\theta = 0$

16. $\theta = \frac{\pi}{6}, \frac{5\pi}{6}$

17. $f(\theta) = -24 \cos\left(\frac{\pi}{6}\theta\right)$

18. $f(\theta) = -26 \cos\left(\frac{\pi}{6}\theta\right)$

19. $x = 1.8 \text{ km}$

20. $x = 6.5 \text{ mi}$

21. vs: down 7

Amp: 4

ps: Right π

b: 5

Per: $\frac{2\pi}{5}$

22. vs: up 2

Amp: 6, reflect over x-axis

ps: 0

b: $\frac{1}{3}$

Per: 6π

23. $f(\theta) = -2 \sin\left(\frac{\theta}{3}\right) - 1$

24. $f(\theta) = 3 \cos(4\theta) - 1$

25. $\frac{\pi}{3}$

26. $-\frac{\pi}{4}$

27. $-\frac{\pi}{6}$

28. $\frac{\pi}{4}$