Answers – Unit 6 Review

17. exponential, y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_, 52, 779.93

18. a. y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 b. a = 16.851, period = 12.74
 c. 66.4˚

19. 11.91

20. $y= \left\{\begin{array}{c}x for x>1\\2 for x\leq 1\end{array}\right. $

21. 294 yds.

22. $689

23. 6.47 \* 10-35 = 0

24. $\frac{4}{3}$

25. .03125

1. 5.436

2. 1.73

3. x = 3, y = -7, r = $\sqrt{58}$
 Sin θ = \_\_\_\_\_ Csc θ = \_\_\_\_\_
 Cos θ = \_\_\_\_\_ Sec θ = \_\_\_\_\_
 Tan θ = \_\_\_\_\_ Cot θ = \_\_\_\_\_

4. a. I, IV b. II, IV c. I, III d. II, III

5. a. x = -3, y - -4, r = 5
 Sin θ = \_\_\_\_\_ Csc θ = \_\_\_\_\_
 Cos θ = \_\_\_\_\_ Sec θ = \_\_\_\_\_
 Tan θ = \_\_\_\_\_ Cot θ = \_\_\_\_\_

 b. x = -3, y = 2, r = $\sqrt{13}$
 Sin θ = \_\_\_\_\_ Csc θ = \_\_\_\_\_
 Cos θ = \_\_\_\_\_ Sec θ = \_\_\_\_\_
 Tan θ = \_\_\_\_\_ Cot θ = \_\_\_\_\_

6. 4 days

7. raph – a = 3, P2er = 6π, P.S. = 3π

8. Graph – a = $\frac{1}{3}$, Per = $\frac{π}{3}$
9. a. y = 2.5sin(2x) b. y = 2sin$\left(\frac{2π}{3}x\right)$

10. 32.12˚

11. a. 10.5 m b. 257 m2

12. 72 outfits

13. 924

14. 10,080

15. a. .5% b. 3.2%

16. $3

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