**KEY Pre Calc Semester Exam Review WS Ch 5, 6, 7, 8.1, 12.1-12.4**

1. 
2. 
3. 
4. 
5. Even
6. Amplitude=2.5, period = 2$π$



1. A= 6, period= 2$π$, phase shift= 2 down
2. 8. a=1/2, Pd= 2π



1. amplitude= 2, Period= 4π/3, PS= π/3



1. a= 0.5, Pd= 2π, PS= π/6



1. 
2. 
3. The height of the building is 3633.6 ft.
4. Area of triangle=19.1 sq. units
5. 
6. -1
7. 
8. 
9. [proof]
10. [proof]
11. 
12. 
13. 0
14. 
15. 
16. 0.2999
17. 0.25
18. -1
19. 
20. 
21. kπ
22. π+2kπ
23. 
24. 

1. 2
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. 
14. III quadrant
15. amplitude=5 and period= 5π/2
16. 26.18 cm
17. 415 ft
18. 23.1 miles
19. 15.3 m2
20. 
21. -8
22. 9
23. -16
24. 
25. 
26. 