**ALGEBRA 2 REVIEW WS 9.1-9.5**

**Is the sequence arithmetic or geometric? Find r or d.**

1.  2. 8 + 9 + 11 + 14 + …

**Find the 4th term in each sequence.**

3.  4. 

**Find the specified term.**

5. -4, -1, 2, …; a28 6. 2, 8, 32, 128, …; a13

7. If  and r = 2, find the first term. 8. If  and d = 4, find a1

9. 24,576 is a term in a geometric sequence. The first term is 3 and r = 2. Find n.

10. 417 is a term in an arithmetic sequence. The first term is -6 and d = 9. Find n.

**Write using sigma notation and then evaluate the series.**

11. S20 for 2 + 6 + 10 + 14 + 18 + … 12. S10 for

**Find Sn for the indicated arithmetic series.**

13. S10 for 4 + 7 + 10 + … 14. S20 for the series with a1 = 15 and d = 10

**Find Sn for the indicated geometric series.**

15. S5 for 1 + 2 + 4 + … 16. S5 for 3 – 6 + 12 - …

**A partial sum of the series is given. Find the number of terms in the partial sum. BONUS QUESTIONS!**

17. A.S. Sn = 3219, a1 = 15, d = 4 18. G.S. Sn = 6817.748, a1 = 47, r = 1.06