**Algebra 2 Sequence/Series Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**State if the sequence is *arithmetic*, *geometric* or neither. Then identify the difference or ratio.**

1)

2)

3)

4)

**Write the *recursive* and explicit *formula* for the arithmetic sequence, and then find the 14th term.**

5)

6)

**Find the missing term of the arithmetic sequence.**

7) 23, \_\_\_, 49 8)

**Write the recursive and explicit formula for the geometric sequence, and then find the 9th term.**

9)

10)

**Find the missing term of the geometric sequence.**

11) 2, \_\_\_, 50 12) 9, \_\_\_, 16

**Tell if it is a sequence or series and whether it is infinite or finite.**

13)

**Write and evaluate the series.**

14) 15)

**Each series has 6 terms. Evaluate.**

16) 17)

**18-20, Find the number of terms, the first term, the last term, and evaluate the series.**

**Decide if each geometric series diverges or converges, and tell if it has a sum.**

21) 22)

**Evaluate the series.**

23) 24)

25) 26)