**Pre-Calculus Review Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Formulas: Arithmetic Geometric**

**Determine whether the sequence is arithmetic, geometric or neither. If it is arithmetic, find the common difference. If it is geometric, find the common ratio.**

**Find the first five terms of the sequence.**

geometric sequence, and

arithmetic sequence, and

**Find the indicated term of each sequence.**

The 20th term of the sequence:

in the sequence

The 7th term in the geometric sequence with the first term of 50 and a common ratio of .

**Write an expression for the apparent *n*th term of the sequence. (assume that *n* begins with 1)**

**Find each sum.**

**Use sigma notation to write the sum.**

***The starting salary for an accountant is $43,800 with a guaranteed salary increase of $1950 per year. Determine the salary during the 4th year and the total compensation through 4 full years of employment.***

***In the first two trips of baling hay around a large field, a farmer obtains 123 bales and 112 bales, respectively. Because each round gets shorter, the farmer estimates the same pattern will continue. Find the total number of bales made if the farmer takes another six trips around the field.***