Algebra II
Sums of Arithmetic and Geometric Series

Sum of a Finite Arithmetic Series :

$$S_n =$$

Find the sum of each arithmetic series.

$$1 + 2 + 3 + 4 + 5 + \ldots + 99 + 100$$

Sum of a Finite Geometric Series :

$$S_n =$$

Find the sum of each geometric series.

$$2 + 4 + 8 + 16 + \ldots + 1024$$

Find the sum of each arithmetic series.

1) $n = 20$; $a_1 = 5$; $a_{20} = 62$

Find the sum of each arithmetic series.

7) $\displaystyle\sum_{j=1}^{50} 3j + 2$

Find the sum of each geometric series.

17) $\displaystyle\sum_{k=1}^{12} 2^{-k}$

Find the sum of the following.

21) The first 20 positive integers ending in 3

Assignment:
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2-28 even