Advanced Math 9a-2

Arithmetic Sequences

Arithmetic Sequence -

Determine whether or not the sequence is arithmetic. (pg 726)

3) 1, 2, 4, 8, 16, ... 9) 5.3, 5.7, 6.1, 6.5, 6.9, ...

nth term of an Arithmetic Sequence:

Write the first five terms of the sequence. Determine whether the sequence is arithmetic, and if it is, find the common difference.

11)
$$a_n = 5 + 3n$$
 19) $a_1 = 15, a_{k+1} = a_k + 4$

Write the first five terms of the arithmetic sequence. 31) $a_8 = 26$, $a_{12} = 42$

Find a formula for a_n for the arithmetic sequence. 43) $a_3 = 94, a_6 = 85$ Sum of an arithmetic sequence:

Find the sum of the first n terms of the arithmetic sequence.

55) 8, 20, 32, 44, ..., n = 10

Evaluate.



) 5n

Assignment: pg. 726 2-24 every 4th, 26-44 even, 56-78 even, 82.