Advanced Math 9a-2 Arithmetic Sequences



*n*th term of an Arithmetic Sequence:

$$a_{n} = a_{1} + d(n-1)$$

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

8+3(n-1) $11) a_n = 5 + \frac{3}{3n}$ $q_1 = 8$ $a_2 = 11$ $q_3 = 14$ $q_4 \ge 17$ $q_5 = 20$ This is a traditionally defined Sequence function. 8 + 3(n-1) $19) a_1 = 15, a_{k+1} = a_k + \frac{4}{4}$ $q_2 = 19$ $q_3 = 23$ deg deg deg deg def def







Evaluate -
65)
$$\sum_{n=1}^{100} \Rightarrow a_1 = 5, a_2 = 10, a_3 = 15, \dots, a_{\infty 0} = 500$$
In this problem, a_{100} was
easy to find. If not easy, use
the a_n formula.
= $50(505)$
= 25250

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