Arithmetic Sequences

Determine whether each sequence is arithmetic. If so, find the common difference.

1) 18, 58, 98, 138 ...

2) 19, 25, 31, 37 ...

3) 9, 14, 11, 28 ...

4) 16, 21, 26, 31 ...

Find the first four terms and stated term given the arithmetic sequence, with a_1 as the 1st term.

5) $a_1 = 28 - 7n, a_5$

6) $a_1 = 18 + 4n, a_{19}$

7) $a_1 = 15 + 9n, a_{12}$

8) $a_1 = 33 - 5n, a_{11}$

Given the first term and common difference, find the first four terms and the formula.

9) $a_1 = 30, d = 12$

10) $a_1 = 29, d = -100$

11) $a_1 = 16, d = 5$

12) $a_1 = 7, d = -6$

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