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Arithmetic Sequences		Date:

Given the first term and the common difference of an arithmetic sequence find the first five terms and the explicit formula.

1) $a_1 = -38, d = -100$	2) $a_1 = -15, d = -5$
3) $a_1 = 24, d = 2.$	4) $a_1 = 18, d = 10$

Given a term in an arithmetic sequence and the common difference find the first five terms and the explicit formula.

5) $a_{38} = -53.2, d = -1.1$	6) $a_{40} = -1191, d = -30$
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7) $a_{37} = 249, d = 8$	

Given a term in an arithmetic sequence and the common difference find the recursive formula and the three terms in the sequence after the last one given.

8) $a_{18} = 27.4, d = 1.1$	9) $a_{12} = 28.6, d = 1.8$
10) $a_{21} = -1.4$ , $d = 0.6$	······································



1)	$a_1 = -38$ , $d = -100$ First Five Terms:- 38, -138, -238, -338, -438, Explicit: $a_n = 62 - 100 \text{ n}$	2) $a_1 = -15$ , $d = -5$ First Five Terms: $-15$ , $-20$ , $-25$ , $-30$ , $-35$ , Explicit: $a_n = -10 - 5 n$
3)	$a_1 = 24, d = 2.$ First Five Terms: 24, 26, 28, 30, 32, Explicit: $a_n = 22 + 2 n$	4) $a_1 = 18, d = 10$ First Five Terms: 18, 28, 38, 48, 58, Explicit: $a_n = 8 + 10 n$
5)	$a_{38} = -53.2, d = -1.1$ First Five Terms: $-12.5, -13.6, -14.7, -15.8, -16.9,$ Explicit: $a_n = -11.4 - 1.1 n$	6) $a_{40} = -1191$ , $d = -30$ First Five Terms: $-21$ , $-51$ , $-81$ , $-111$ , $-141$ , Explicit: $a_n = 9 - 30$ n
7)	$a_{37} = 249, d = 8$ First Five Terms:- 39,- 31,- 23,- 15,- 7, Explicit: $a_n = 47 + 8 n$	8) $a_{18} = 27.4, d = 1.1$ Next 3 terms:28.5, 29.6, 30.7, Recursive: $a_n = a_{n-1} + 1.1, a_1 = 8.7$
9)	$a_{12} = 28.6, d = 1.8$ Next 3 terms:30.4, 32.2, 34, Recursive: $a_n = a_{n-1} + 1.8, a_1 = 8.8$	10) $a_{21} = -1.4$ , $d = 0.6$ Next 3 terms:- 0.8, - 0.2, 0.4, Recursive: $a_n = a_{n-1} + 0.6$ , $a_1 = -13.4$