



Patterning - Term Value from Equation for Decreasing Arithmetic Pattern

1 Find the term for $n=10$ given this pattern equation

$$a_n = 87 - 6(n - 1)$$

A	B	C	D	E	F
31	141	32	38	33	30

2 Find the term for $n=12$ given this pattern equation

$$a_n = 43 - 3(n - 1)$$

A	B	C	D	E	F
10	-1	-23	76	11	8

3 Find the term for $n=10$ given this pattern equation

$$a_n = 78 - 5(n - 1)$$

A	152,343,750	B	123
C	34	D	36
E	33	F	24

4 Find the term for $n=10$ given this pattern equation

$$a_n = 86 - 6(n - 1)$$

A	B	C	D	E	F
32	23	36	37	31	140

5 Find the term for $n=12$ given this pattern equation

$$a_n = 59 - 4(n - 1)$$

A	B	C	D	E	F
-7	15	10	103	18	19

6 Find the term for $n=14$ given this pattern equation

$$a_n = 33 - 2(n - 1)$$

A	7	B	9
C	6	D	270,336
E	12	F	5

7 Find the term for $n=13$ given this pattern equation

$$a_n = 57 - 4(n - 1)$$

A	5	B	4
C	-15	D	105
E	9	F	956,301,312

8 Find the term for $n=8$ given this pattern equation

$$a_n = 31 - 2(n - 1)$$

A	B	C	D	E	F
-4	31	13	17	3,968	16