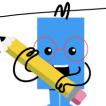


## mobius

## Patterning - Term Value from Equation for **Decreasing Arithmetic Pattern**



1	Find the term for n=6 given this
•	pattern equation

$$a_n = 45 - 3(n-1)$$

$$a_n = 45 - 3(n-1)|a_n = 46 - 3(n-1)|$$

Α	35	В	60	Α	46	В	33,534
С	10,935	D	28	С	24	D	30
E	30	F	31	E	64	F	28

Find the term for n=7 given this 3 pattern equation

4

Find the term for n=8 given this pattern equation

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

$$|a_n| = 33 - 2(n-1)|a_n| = 91 - 6(n-1)$$

A	В	С	D	E	F	А	133	В	54
24	-3	45	15	23	21	С	49	D	46
						E	25,474,176	F	63

Find the term for n=7 given this 5 pattern equation

Find the term for n=8 given this pattern equation

$$a_n = 32 - 2(n-1)$$

$$a_n = 32 - 2(n-1)|a_n = 43 - 3(n-1)|$$

Α	В	С	D	E	F	Α	18	В	8
20	38	-4	15	18	44	С	94,041	D	22
						Е	25	F	64

Find the term for n=9 given this 7 pattern equation

8

Find the term for n=9 given this pattern equation

$$a_n = 62 - 4(n-1)|a_n = 47 - 3(n-1)|a_n = 47 -$$

$$a_n = 47 - 3(n-1)$$

Α	62	В 30	A	<sup>A</sup> 19	В	23
С	27	D 32	С		7 D	71
E	4,063,232	F 94	E	- ~-	F	22