

mobius

Patterning - Equation from Rule for **Increasing Arithmetic Pattern**



Find the correct equation that this pattern rule describes

2

Find the correct equation that this pattern rule describes

Start at 1 and add 5 for each term

$$egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} A & = 1+5(n-1) \ egin{aligned} a_n & = 5+5(n-1) \ egin{aligned} a_n & = 0 \ a_n & = 0 \end{aligned} \end{aligned} egin{aligned} egin{aligne} egin{aligned} egin{aligned} egin{aligned} egin{aligned} eg$$

$$egin{aligned} egin{aligned} ar{a}_n &= m{3} imes m{5}^{n-1} egin{aligned} m{\mathsf{B}} &= 1 + 5(n-1) \ m{a}_n &= m{3} + m{5}(n) m{a}_n^{\mathsf{D}} &= m{3} - 5(n-1) \ m{a}_n &= m{3} + m{8}(n-1) m{a}_n^{\mathsf{F}} &= m{3} + 5(n-1) \end{aligned}$$

3

Find the correct equation that this pattern rule describes

4

Find the correct equation that this pattern rule describes

Start at 3 and add 4 for each term

$$egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} A_n &= 3+1(n-1) \ egin{aligned} a_n^{\sf D} &= a_{n-2}+a_{n-1} \ egin{aligned} egin{aligned\\ egin{aligned} egin{aligned}$$

for each term

$$egin{aligned} egin{aligned} egin{aligned\\ egin{aligned} egi$$

5

Find the correct equation that this pattern rule describes

6

Find the correct equation that this pattern rule describes

Start at 3 and add 3 for each term

$$egin{aligned} egin{aligned} egin{aligned} {\sf A} & = 3+6(n-1) \ a_n^{\sf B} & = 3+3(n-1) \ a_n^{\sf C} & = 3+2(n-1) \ a_n^{\sf D} & = 3+3(n) \ a_n^{\sf E} & = 3 imes 3^{n-1} \ a_n^{\sf F} & = 3-3(n-1) \end{aligned}$$
 Start at 1 and add 6 for each term

for each term

$$egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} A & a_n = 1 + 10(n-1) egin{aligned} a_n & a_{n-2} + a_{n-1} \end{aligned} \ egin{aligned} egin{aligned\\$$

7

Find the correct equation that this pattern rule describes

8

Find the correct equation that this pattern rule describes

Start at 1 and add 4 for each term

$$a_n^{\mathsf{A}}=1-4(n-1)$$
 $a_n^{\mathsf{B}}=-3+4(n-1)$ Start at 2 and add 3 for each term $a_n^{\mathsf{C}}=1+2(n-1)$ $a_n^{\mathsf{D}}=1+4(n-1)$ $a_n^{\mathsf{E}}=1 imes 4^{n-1}$ $a_n^{\mathsf{F}}=1+4(n)$

$$egin{aligned} egin{aligned} egin{aligned\\ egin{aligned} egi$$