

((بسم الله الرحمن الرحيم)) حفظاً واحداً كامل ترتيباً مستمراً

١٩، ١٧، ١٥، ١٣، ١١، ٩، ٧، ٥، ٣، ١

١) $k_{n+1} \rightarrow k(1) + 1 = k$ ✓

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٢) $k_{n+1} \rightarrow \begin{matrix} n_1=9 \\ n_2=k \end{matrix}$

$S = \frac{1}{2}(a_1 + a_n) = \frac{1}{2}(9 + k) = 24$ دس

الف

$19, \dots, 32 \rightarrow \begin{matrix} n_{19} = 111 \\ n_{32} = 13 \end{matrix}$

$S = \frac{k}{2}(111 + 13) = 444$

ب

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٣) $\alpha = 1 - \sqrt{3} \rightarrow a_{10} - a_{12} = (1 + k\alpha) - (1 + 2k\alpha) = 2\alpha \rightarrow 2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$

٤) $\omega^2 \alpha, \omega^2 \alpha + \frac{\omega^2 \alpha + \omega^2 \alpha}{\alpha}, \omega^2 \alpha + k \omega^2 \alpha$
 $\xrightarrow{+\alpha}$

$\Delta y = \Delta^{2x+1} \rightarrow y = 2x+1$ ①

$\frac{x+y}{2} = 2 \rightarrow x+y = 4$ ②

$xy = 3, y = 3, x = 1 \leftarrow ①, ②$

٥) $2(2x+1) = 8x-4 \rightarrow x = \frac{1}{2}$ دائرة حساب

$-3 < 0 < 3$

$a_n = 2n - 4 = 4$

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٦) $4n-1 \leq 14$
 $n \leq 4$

$2n \leq n+1 \rightarrow \begin{matrix} n=1 \\ n=2 \end{matrix} \rightarrow \begin{matrix} 2 \\ 4 \end{matrix}$ ✓

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٧) $a_3 - d, a_4, a_5 + d \rightarrow 3a_4 = 21 \rightarrow a_4 = 7$
 $a_6 - d, a_7, a_8 + d \rightarrow 3a_7 = 30 \rightarrow a_7 = 10$

$30 - 7 = 21 + a_1 \cdot (-11) = \frac{V}{-11} = \frac{1}{11}$

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٨) $a_1 + a_2 + a_3 = 18 \rightarrow 3a_2 = 18 \rightarrow a_2 = 6$
 $a_{10} = a_2 + 8d = 6 + 24 = 30$

$a_2 + a_8 = 18 \rightarrow 10 + 8d = 18$
 $d = 1$

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٩) $\frac{9}{2}(a_1 + a_8) = 9 \left(\frac{3}{2}(a_1 + a_8) \right) \rightarrow a_1 + a_8 = 3a_1 + 3a_8 \rightarrow 2a_1 = a_8 - 3a_8$ ١، ١٥

$2a_1 = a_1 + 7d - 3(a_1 + 7d) \rightarrow 2a_1 = 8d \rightarrow a_1 = \frac{4d}{2}$

$\frac{a_1 \cdot 9}{a_1 \cdot 9} = \frac{31a_1 + a_1}{12a_1 + a_1} = 3$

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١٠) $\alpha = \frac{38-11}{4} = 7$ $a_n = 4n+7 \rightarrow a_8 = 39$

$\alpha = \frac{33-21}{2} = -6$ $a_n = -6n + 33$

✓

$18, \dots, \frac{18}{2}, \dots, 18$
 دائرة حساب

البيان (دس) دس

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