

۲۲، ۱۲، ۵، ۱
 $\begin{array}{cccc} \rightarrow & \rightarrow & \rightarrow & \rightarrow \\ +1 & +2 & +3 & +10 \\ \rightarrow & \rightarrow & \rightarrow & \\ +3 & +3 & +3 & \end{array}$

$C=0$

$2a=3 \Rightarrow a=\frac{3}{2}$

$t_n = an^2 + bn + c$

(۱)

$t_1 = \frac{3}{2}(1)^2 + b(1) + 0$

$1 = \frac{3}{2} + b \rightarrow \boxed{b = -\frac{1}{2}}$

$t_n = \frac{3}{2}n^2 - \frac{1}{2}n$

$t_{10} = \frac{3}{2}(10)^2 - \frac{1}{2}(10)$

$t_{10} = 150 - 5 = \boxed{145}$

۹، ۴، ۱
 تغییرات
 $\begin{array}{ccc} \rightarrow & \rightarrow & \rightarrow \\ +0 & +1 & +2 \\ \rightarrow & \rightarrow & \\ +1 & +1 & \end{array}$

۳، ۱، ۰
 تغییرات
 $\begin{array}{ccc} \rightarrow & \rightarrow & \rightarrow \\ +0 & +1 & +2 \\ \rightarrow & \rightarrow & \\ +1 & +1 & \end{array}$

$2a=1 \Rightarrow a=\frac{1}{2}$

$C=0$

$t_n = an^2 + bn + c$

(۲)

$t_1 = \frac{1}{2} + b + 0$

$0 = \frac{1}{2} + b \rightarrow \boxed{b = -\frac{1}{2}}$

$t_n = \frac{1}{2}n^2 - \frac{1}{2}n$

$t_n = \frac{n^2 - n}{2}$

$\frac{n^2 - n}{2} = 110$

$n^2 - n = 220 \rightarrow n(n-1) = 220$

$\boxed{n=11}$

۱۳، ۹، ۵
 $\begin{array}{ccc} \rightarrow & \rightarrow & \rightarrow \\ +2 & +2 & \\ \rightarrow & \rightarrow & \\ +2 & +2 & \end{array}$
 $t_n = 4n + 1 \xrightarrow{\text{if } n=11} t_{11} = 45$

۴، ۰، ۱
 $\begin{array}{ccc} \rightarrow & \rightarrow & \rightarrow \\ +2 & +2 & \\ \rightarrow & \rightarrow & \\ +2 & +2 & \end{array}$
 $t_n = 4n - 2 \xrightarrow{\text{if } n=11} t_{11} = 42 - 2 = 40$

مجموع کل غوره ها: $45 + 40 = 85$
 غوره های زنبلی: 85

بزرگترین جمله $\rightarrow$ if $n=2 \Rightarrow a_2 = \frac{(2-1)^2}{2} = \frac{1}{2}$

(۳)

کوچکترین جمله $\rightarrow$ if $n=1 \Rightarrow a_1 = \frac{(1-1)^2}{2} = -1$

اختلاف جمله = $\frac{1}{2} - (-1) = \frac{1}{2} + 1 = \boxed{\frac{3}{2}}$

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H A S H T A G

$$b_n = (-r)^n \cdot V_n \rightarrow n=r \Rightarrow b_r = (-r)^r \cdot r! \quad (a)$$

$$b_r = -rV - r! \rightarrow b_r = -\varepsilon n$$

$$a_n = -\omega n + r! \rightarrow -\omega n + r! = -\varepsilon n$$

$$-\omega n = -V_0 \rightarrow n = 1r \Rightarrow \boxed{k=1\varepsilon}$$

$$a_{10} - a_V = 1r \rightarrow d = \frac{a_m - a_n}{m - n} \Rightarrow d = \frac{a_{10} - a_V}{10 - V} = \frac{1r}{r} = \varepsilon \quad (q)$$

$$a_4 - a_1 = ? \rightarrow a_1 + \omega d - a_1 = ?$$

$$\downarrow a_1 + \omega d \quad \omega d = ? \Rightarrow \omega \times \varepsilon = (r_0) = a_4 - a_1$$

$$\left. \begin{array}{l} a_r = V \\ a_r = 1d \end{array} \right\} \rightarrow d = \frac{a_\varepsilon - a_r}{\varepsilon - r} = \frac{1d - V}{r} = \frac{1}{r} = \varepsilon \quad (v)$$

$$a_r = a_1 + d \Rightarrow V = a_1 + \varepsilon \Rightarrow \boxed{a_1 = r} \Rightarrow a_r = a_1 + r!d$$

$$a_r = r + 1 = 11$$

$$a_1 = b_1 = r \rightarrow r_2, 11, \dots$$

$$a_r = b_r = 11 \rightarrow \boxed{b_n = n n - \omega}$$

$$\frac{r}{\omega}, \frac{4}{V}, \frac{10}{9}, \frac{1\varepsilon}{11} \quad (n)$$

$$\text{الأسلوب الأول} \rightarrow \begin{array}{c} r_2, 4, 10, 1\varepsilon \\ \xrightarrow{+\varepsilon} \xrightarrow{+\varepsilon} \xrightarrow{+\varepsilon} \end{array} \rightarrow t_n = r n - r$$

$$\text{الأسلوب الثاني} \rightarrow \begin{array}{c} \omega, V, 9, 11 \\ \xrightarrow{+r} \xrightarrow{+r} \xrightarrow{+r} \end{array} \rightarrow t_n = r n + r$$

$$a_n = \frac{r n - r}{r n + r} < \frac{r}{r} \rightarrow r(r n - r) < r(r n + r)$$

$$n n - r < n n + r$$

$$r n < 1r \rightarrow n < \frac{1r}{r} \rightarrow n < 4/5$$

$$\boxed{n = 1, 2, 3, \varepsilon, \omega, r \rightarrow 64}$$

$$\begin{array}{cccc} \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} \\ +1 & +0 & -1 & -1 \\ \xrightarrow{-1} & \xrightarrow{-1} & \xrightarrow{-1} & \xrightarrow{-1} \\ -1 & -1 & -1 & -1 \end{array} \rightsquigarrow \text{La} = -1 \rightarrow a = \frac{-1}{1}$$

$$y = \frac{-x}{r} + b$$

$$\boxed{\frac{1}{r} = b}$$

$$f_n = \frac{-\mu}{r} n^r + \frac{1\sigma}{r} n$$

$$t_n = An^r + Bn$$

11

$$A = \frac{2}{1-x}$$

$$R_3 = \frac{1 \omega}{f}$$

$$3A + 5B = 3\left(-\frac{3}{4}\right) + 5\left(\frac{1}{4}\right)$$

$$= \frac{-9}{x} + \frac{2x}{x} = \frac{-9}{x} = \boxed{-9}$$

$$t_n = \underbrace{-9}_{+0}, \underbrace{-9}_{+2}, \underbrace{-7}_{+4}, 0, \dots$$

$C = -4$

$$f_n = an^r + bn + c \quad (10)$$

$$f_1 = 1 + b - 9$$

$$-4 = 1 + b - 4$$

$$b = -1$$

$$a_p = |v|$$

$$a_f = r1$$

$$\left. \begin{array}{l} a_r = r! \\ a_k = k! \end{array} \right\} \rightarrow d = \frac{a_m - a_n}{m - n} = \frac{a_r - a_k}{r - k} \quad \text{f}_n = \frac{n^r - n - 4}{r} = \frac{10}{r} = \boxed{5}$$

$$a_r = q_1 + d = r1 \rightarrow r1 = q_1 + d \rightarrow \boxed{q_1 = r4}$$

$$\begin{matrix} \psi_4, \psi_1 \\ \downarrow +a \end{matrix} \begin{matrix} \psi_4, \psi_1 \\ \downarrow +a \end{matrix} \begin{matrix} \psi_4, \psi_1 \\ \downarrow +a \end{matrix} \rightarrow \underline{t_n = \omega n + \psi_1}$$

$$t_n = t_{n'} \Rightarrow n^2 - n - 4 = d_{n+1}$$

$$n^2 - 9n - 24 = 0 \Rightarrow (n-9)(n+4) = 0$$

$n = 9$ قابل قبول است پس در یکی از حالت عمومی جایگذاری کرده و عدد جمله را پیدا کرده $\leftarrow 5n + 21$

$$\downarrow_{n=a}$$

$$\omega(9) + 21 = 2\omega + 21 = 44$$

$$\rightarrow n-9=0 \rightarrow \underline{n=9} \quad \checkmark$$

$$n + \kappa = 0 \rightarrow n = -\kappa$$

غير قابل قبول

Hashtag.