

نام و نام خانوادگی ..... پاس‌نامه تشریحی تکلیف شماره ..... ۱۰ کلاس ..... هم (خبر) .....

Ex)  $t_1 = v(1)^V - 1 = 7$ ,  $t_2 = v(2)^V - 1 = 11$ ,  $t_3 = v(3)^V - 1 = 24$ ,  $t_4 = v(4)^V - 1 = 47$ ,  $t_5 = v(5)^V - 1 = 74$

۷۴ و ۴۷ و ۲۶ و ۲۱۱ → سوره اول قبله →

$$b) \tau_1 = \frac{v(1)+1}{(1)+1^c} = \frac{1^v}{\omega}, \tau_r = \frac{v(r)+1}{(r)+1^c} = \frac{\omega}{q}, \tau_{1^v} = \frac{v(1^v)+1}{(1^v)+1^c} = \frac{v}{v} = 1, \tau_c = \frac{v(c)+1}{(c)+1^c} = \frac{q}{1}, \tau_d = \frac{v(d)+1}{(d)+1^c} = \frac{11}{q}$$

$$\text{---} \rightarrow \frac{3}{0}, \frac{5}{9}, 1, \frac{9}{1}, \frac{11}{9}$$

$$\text{الف) } t_{13} = \frac{(-1)^{(13)}}{\sqrt{(13)+3}} = \frac{-1}{\sqrt{16}} = \boxed{-\frac{1}{4}}$$

$$\rightarrow t_{13} = v(13) - \left[ \frac{(13)}{r} \right] = 14 - 1 = \boxed{13}$$

$\rightarrow$  رتبة (تس) علاقة (لغ) في تس  
 $t_n = x_{n-1} \rightarrow x_{n-1} < 0$   
 $x_n < 1$   
 $n < 5$

$\Rightarrow t_1, t_2, t_3, t_4 \Rightarrow$  نفسه  
 متتابعته

$\hookrightarrow \sim \sim \rightarrow t_n = (n-10)(n-4) \rightarrow$ 

| $n$      | 4        | 10           |          |          |
|----------|----------|--------------|----------|----------|
| +        | 0        | -            | 0        | +        |
| $\times$ | $\times$ | $\checkmark$ | $\times$ | $\times$ |

 $\Rightarrow t_0, t_4, t_v, t_1, t_9$   
 $n \in \mathbb{N}$

$$t_n = 2n - 14 \rightarrow 2n - 14 \leq 0 \quad \Rightarrow \quad t_1, t_2, t_3, t_4, t_5, t_6, t_7, t_8 \Rightarrow \text{نعم}$$

$\sim \sim \sim \rightarrow t_n = (n-r)(n-q) \rightarrow$

|     |              |              |
|-----|--------------|--------------|
| $n$ | $r$          | $q$          |
| $+$ | $-$          | $+$          |
| $x$ | $\checkmark$ | $\checkmark$ |

$\xRightarrow{n \in \mathbb{N}} t_r, t_c, t_d, t_q, t_v, t_n, t_q$

$\Rightarrow$  ab. V

$$t_f = v, t_g = 2v \xrightarrow{\text{اولی}} t_g = t_f + \omega d = 2v \rightarrow \omega d = v \xrightarrow{\text{دوم}} t_f = t_1 + v d \Rightarrow \frac{d}{v} = t_n = t_1 + (n-1)d$$

$$t_h = -v + v(n-1) \xrightarrow{\text{نهم}} t_p = -v + v(n-1) = \underline{v}$$

$$\xrightarrow{\text{Voll}} \begin{cases} t_f = a(r) + b = v \\ t_q = a(q) + b = v \end{cases} \xrightarrow{t_q - t_f} \begin{matrix} vr - v = \omega q \\ a = v \end{matrix} \xrightarrow{1^{\text{r}}} \begin{matrix} t_f = v = r(r) + b \\ \rightarrow b = -\omega \end{matrix} \Rightarrow \begin{matrix} \text{Ans.} \\ \text{Gef.} \\ \text{N.W.} \end{matrix} \begin{matrix} t_n = an + b \\ \xrightarrow{a=v, b=-\omega} t_n = rn - \omega \\ \rightarrow t_n = r(r) - \omega = v \end{matrix}$$

