

$$t_n = \frac{(-1)^n}{\sqrt{n+2}}$$

$$t_{13} = \frac{(-1)^{13}}{\sqrt{15}} = \frac{-1}{\sqrt{15}} = \boxed{-\frac{1}{\sqrt{15}}}$$

فایده کلیه الی

تکلیف ۱۰

$$t_n = 2n - \left\lfloor \frac{n}{2} \right\rfloor$$

$$t_{13} = 24 - \left\lfloor \frac{13}{2} \right\rfloor = 24 - 6 = \boxed{18}$$

$$\left\lfloor \frac{13}{2} \right\rfloor = 6$$

جواب سوال ایلا در سیت ص نوشتن این جواب سوال ۲ است

نورده هم

دسته

دختران

(۲)

$$t_n = 2n - 10$$

$$2n - 10 = 0 \Rightarrow n = 5$$

$$\frac{5}{-1} +$$

if $1 \leq n \leq 5$ →

$$5 - 1 = \boxed{4}$$

$$t_n = n^2 - 14n + 40$$

$$n^2 - 14n + 40 = (n-10)(n-4) = 0$$

$$\frac{4}{+} \frac{10}{-}$$

if $4 \leq n \leq 10$ →

$$(10-4) - 1 = \boxed{5}$$

$$t_n = 2n - 14$$

$$2n - 14 = 0 \Rightarrow n = 7$$

$$\frac{7}{-1} +$$

if $1 \leq n \leq 7$ →

$$(7-1) + 1 = \boxed{7}$$

$$t_n = n^2 - 12n + 27$$

$$n^2 - 12n + 27 = (n-9)(n-3) = 0$$

$$\frac{3}{+} \frac{9}{-}$$

$$3 \leq n \leq 9 \quad (9-3) + 1 = \boxed{7}$$

$$d = \frac{t_9 - t_7}{9-7} = \frac{22-7}{2} = 7.5$$

$$d = \frac{t_m - t_n}{m-n}$$

$$t_7 = a_1 + 6d = 7 \Rightarrow a_1 = -2$$

$$t_n = t_1 + (n-1)d$$

$$t_7 = \frac{a_1}{-1} + 6d = \boxed{7}$$

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الف) $t_n = n^2 - 4n + 2$ ~~$n^2 - 4n + 2$~~ ~~$n^2 - 4n + 2$~~

$t_1 = 1 - 4 + 2 = -1$ $t_2 = 4 - 8 + 2 = -2$ $-1, -2, -3, -4, -5, \dots$

$a > 0 \Rightarrow \min \Rightarrow x_{\min} = \frac{4}{2} = 2$ $y_{\min} = 3^2 - 4(3) + 2 = -5$

ب) $t_n = n^2 + 4n + 1$ $\begin{pmatrix} 4 \\ t_1 \end{pmatrix}$ $\begin{pmatrix} 13 \\ t_2 \end{pmatrix}$ $\begin{pmatrix} 22 \\ t_3 \end{pmatrix}$

$a > 0 \Rightarrow \min \Rightarrow x_{\min} = \frac{-4}{2} = -2$ $\rightarrow$ معنی است در صورتی که n باشد $n=1$ برای کمترین مقدار $1^2 + 4 + 1 = 6$

$-1, -2, -3, -4, -5, \dots$

$a = \frac{\text{اختلاف متوالی}}{2} = \frac{2}{2} = 1$

$C = \text{توهم} = 1$

$x^2 + b x + a \xrightarrow{x=1} 1 + b + 1 = -4 \Rightarrow b = -6$

$a_n = n^2 - 4n + 1$

$a_{10} = 100 - 40 + 1 = 61$

$t_n = -1, -4, -9, -16, -25, \dots$

$C = \text{توهم} = -1$

$a = \frac{\text{اختلاف متوالی}}{2} = \frac{4}{2} = 2$

$C = \text{توهم} = -1$

$a_n = 2n^2 - n - 1$

$\boxed{a_n = 2n^2 - n - 1}$

الف) $t_n = 3n^2 - 1$ $t_1 = 3 \times 1 - 1 = 2$ $t_2 = 3 \times 4 - 1 = 11$ $t_3 = 3 \times 9 - 1 = 26$

$2, 11, 26, 47, 74, 107$ $t_1, t_2, t_3, t_4, t_5, t_6$

ب) $t_n = \frac{2n+1}{n+4}$ $t_1 = \frac{3}{5} = \frac{3}{5}$ $t_2 = \frac{5}{6} = \frac{5}{6}$ $t_3 = \frac{7}{7} = 1$ $t_4 = \frac{9}{8} = \frac{9}{8}$ $t_5 = \frac{11}{9} = \frac{11}{9}$

$(-\infty, a+4]$ و $[a+1, +\infty)$

$a+4 \leq a+1 \Rightarrow 3 \leq a$

متناهی = یک عدد = استرک

متناهی $\cap = \emptyset$ = دو مجموعه

الف) $3, 9, 15, \dots, 99$ $a_n = 3n$ $3n = 99 \Rightarrow n = 33$

ب) $2, 10, 18, \dots, 100$ $a_n = 2n$ $2n = 100 \Rightarrow n = 50$

ج) $1, 5, 9, 13, \dots, 100$ $a_n = 4n$ $4n = 100 \Rightarrow n = 25$

$n(\text{الف}) + n(\text{ب}) - n(\text{ب} \cap \text{الف}) = n(\text{ب} \cup \text{الف}) = 33 + 50 - 25 = 58$