

$$t_n = 3n^2 - 1$$

$$2, 11, 24, 37, 50, 63$$

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1. دیا افسر خواہ

(2)

$$b) t_n = \frac{2n+1}{n+5} \quad \frac{2}{5}, \frac{3}{4}, \frac{4}{3}, \frac{5}{2}, \frac{6}{1}$$

-2

$$a) \frac{(-1)^{13}}{\sqrt{14+14}} = \frac{-1}{\sqrt{28}} = \frac{-1}{2\sqrt{7}}$$

(2)

$$c) (2n-13) + \left[\frac{13}{2} \right] = 24 - 13 = 11$$

-3

$$a) 2n-1 < 0 \quad 2n < 10$$

$$n < 5$$

$$1 \leq n \leq 4 \rightarrow (4-1) + 1 = 4 \text{ تعداد}$$

(2)

$$b) n^2 - 14n + 45 < 0 \quad (n-5)(n-9) < 0$$

$$\frac{9}{+5-9+}$$

$$5 < n < 9 \rightarrow 5 \leq n \leq 8$$

$$(9-5) + 1 = 5 \text{ تعداد}$$

-4

$$a) 2n-14 < 0$$

$$2n < 14$$

$$n < 7$$

$$1 \leq n \leq 6 \rightarrow (6-1) + 1 = 6 \text{ تعداد}$$

(2)

$$b) n^2 - 12n + 27 < 0 \quad (n-3)(n-9) < 0$$

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

$$3 \leq n \leq 8$$

$$(9-3) + 1 = 7 \text{ تعداد}$$

-5

$$t_n = \frac{1}{n} \left(\frac{1}{n} \rightarrow \frac{1}{n} \right) \rightarrow \frac{1}{n^2}$$

$$10 : 5 = 2 \text{ زوج}$$

$$t_n = 3n - 5$$

$$\frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n} \quad \frac{1}{n}$$

$$(1 \times 10) - 5 = 5$$

(2)

الف) $zn = n^2 - 4n + 1 \rightarrow 1^2 - 1 + 1 = (-V)$
 $\min \left| \frac{-b}{2a} = \frac{4}{2} = 2 \right|$

1, 20

n خیر اعداد طبیعی است نمی تواند منفی باشد

ب) $zn = n^2 + 4n + 1$

$\min \left| \frac{-b}{2a} = \frac{-4}{2} = -2 \right|$ x $1 - 1 + 1 = (-3)$

$n=1 \rightarrow +1 = 4$ $tw = 22 \rightarrow t_{min} = t_1 = (4)$
 $n=2 \rightarrow +2 = +13$

$zn = -4, -V, -1, -V, -4$ $\left| -4, -V, -1, -V \right| -4, (-V)$
 نسبت تقریبی

1, 20

$t_1 = 1 \div 4 = 1/4$ $\omega = 1, 2, 3, \dots$

$2a = 2 \rightarrow a = 1$

$-4, -V, -1, -V, -4$
 $-3, -1, +1, +3$
 $+2, +2, +2$

$t_1 = -4 \rightarrow a + b + c = 4 \rightarrow b + c = -8 \rightarrow b = -4$
 $t_2 = -V \rightarrow 2a + 2b + c = -V \rightarrow 2b + c = -11 \rightarrow c = 1$

$zn = n^2 - 4n + 1 \rightarrow t_1 = 1 - 4 + 1 = (-2)$

$(-\infty, a+4), [2a+1, +\infty)$

$2a+1 \leq a+4$

$a = 3$

$a \leq 3$

$2a+1 = a+4$

$V = 3$

$2a+1 \geq a+2$

$a \geq 3$

اشاره آینه ای باید

یک عکس باشد (حالت مادی)

یا تهر باشد (حالت بزرگتر)

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$zn = -4, -1, 1, 1, 4$
 $a, 9, 14$
 f, f

$zn = an^2 + bn + c$

$2n^2 - 4n - 1$

$2-1+c = -4$
 $-V$

$1 \rightarrow a + b + c = -4$

$2 \rightarrow a + 2b + c = -1$

$3 \rightarrow 9a + 3b + c = 1$

$9a + 3b + c = 1$
 $4a + 2b + c = -1 \rightarrow 5a + b = 9$

$\begin{cases} 5a + b = 9 \\ 4a + b = -1 \end{cases} \Rightarrow$

$a = 2$
 $(2 \times 2) + b = 9 \Rightarrow b = 5$
 $b = -1$

$a + b + c = -4$
 $4a + 2b + c = -1 \rightarrow 3a + b = 3$

الف) $3, 4, 9, \dots, 99$

$zn = 3n$

$99 = 3n \Rightarrow n = 33$

ب) $zn = 3n$

$3, 4, 9, 14, 19, \dots, 100$

$100 = 3n \rightarrow n = 33$

ج) $14, 30, 46, 62, 78, 94$
 $6-9$

$n(3 \cup 4) = n(3) + n(4) - n(3 \cap 4)$

$3 \times 3 + 4 - 4 = (5)$