

الف) $t_n = 3n^2 - 1 \rightarrow 2, 11, 28, 47, 68, \dots$

ب) $t_n = \frac{3n+1}{n+2} \rightarrow \frac{3}{2}, \frac{5}{4}, 1, \frac{7}{8}, \frac{11}{9}, \dots$

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

ب) $t_n = 3n - \left\lfloor \frac{n}{2} \right\rfloor \rightarrow 24 - \left\lfloor \frac{14}{2} \right\rfloor = 24 - 7 = 17$

الف) $t_n = 2n - 10 \rightarrow 2n - 10 < 0 \rightarrow \frac{2n}{2} < \frac{10}{2} \rightarrow n < 5$

ب) $t_n = n^2 - 1(n+2) \rightarrow (n-1)(n-2) \rightarrow \frac{1}{+} - \frac{1}{+} + \rightarrow 1 < n < 2$

الف) $t_n = 2n - 14 \rightarrow 2n - 14 \leq 0 \rightarrow \frac{2n}{2} \leq \frac{14}{2} \rightarrow n \leq 7$

ب) $t_n = n^2 - 12n + 27 \rightarrow (n-9)(n-3) \rightarrow \frac{1}{+} - \frac{1}{+} + \rightarrow 3 \leq n \leq 9$

الف) $t_n = 3n - 5$
 $t_1 = 3(1) - 5 = -2$
 $t_2 = 3(2) - 5 = 1$
 $t_3 = 3(3) - 5 = 4$
 $t_4 = 3(4) - 5 = 7$
 $t_5 = 3(5) - 5 = 10$
 $t_6 = 3(6) - 5 = 13$
 $t_7 = 3(7) - 5 = 16$
 $t_8 = 3(8) - 5 = 19$
 $t_9 = 3(9) - 5 = 22$
 $t_{10} = 3(10) - 5 = 25$
 $t_{11} = 3(11) - 5 = 28$
 $t_{12} = 3(12) - 5 = 31$
 $t_{13} = 3(13) - 5 = 34$
 $t_{14} = 3(14) - 5 = 37$
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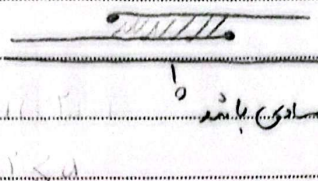
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$$(-\infty, a+1] \cap [2a+1, +\infty)$$

9

$$a+1 \geq 2a+1$$

$$1 \geq a$$



5

$$(الف) 3, 9, 9, \dots, 99$$

$$\frac{99-3}{3} + 1 = \frac{96}{3} + 1 = 32 + 1 = 33$$

10

$$(ب) 10, 10, 10, \dots, 100$$

$$\frac{100-10}{10} + 1 = \frac{90}{10} + 1 = 9 + 1 = 10$$

10

$$(ج) 10, 20, 40, \dots, 90$$

$$\frac{90-10}{10} + 1 = \frac{80}{10} + 1 = 8 + 1 = 9$$

$$2) 3^2 + 20 = 9 + 20 = 29 = 47$$

15

20

25

30