

$$n=1 \rightarrow 3-1=2$$

$$n=4 \rightarrow 41-1=40$$

(الف)

(1)

$$n=2 \rightarrow 12-1=11$$

$$n=5 \rightarrow 75-1=74$$

2, 11, 40, 74, ...

$$n=3 \rightarrow 27-1=26$$

$$n=1 \rightarrow \frac{3}{5}$$

$$n=4 \rightarrow \frac{9}{8}$$

(ب)

$$n=2 \rightarrow \frac{6}{5}$$

$$n=5 \rightarrow \frac{11}{9}$$

 $\frac{3}{5}, \frac{6}{5}, 1, \frac{9}{8}, \frac{11}{9}, \dots$

$$n=3 \rightarrow \frac{9}{9}=1$$

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

(الف)

(2)

$$t_{13} = 25 - \left[\frac{13}{\sqrt{15}} \right] = 25 - 3 = 22$$

(ب)

$$2n-10 < 0 \rightarrow n < 5$$

جدول

(الف)

(3)

$$n^2 - 14n + 40 < 0 \rightarrow (n-4)(n-10) < 0$$

جدول

(ب)

$$n < 4 \text{ و } n < 10 \rightarrow 4 < n < 10$$

$$2n-15 < 0 \rightarrow 2n < 15$$

$$n < 7.5$$

جدول

(الف)

(4)

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

جدول

(ب)

$$n < 3 \text{ و } n < 9 \rightarrow n < 3$$

$$\left. \begin{array}{l} t_5 = 5 \\ t_9 = 25 \end{array} \right\} t_r = f \rightarrow \begin{array}{l} t_9 = t_r + \omega_d \\ 25 = 5 + \omega_d \Rightarrow \omega_d = 20 \\ d = 20 \end{array} \quad (5)$$

$$a_n = 3n - 5 \rightarrow t_r = 9 - 5 = 4 \quad (5)$$

$$t_r = 3^2 - 1 \cdot 2 + 2 = 7 \quad (5)$$

$$t_1 = 1 + 1 + 1 = 3 \quad (5)$$

$$\begin{array}{ccccc} -1 & -2 & -3 & -4 & -5 \\ (1) & (2) & (3) & (4) & (5) \end{array} \rightarrow n^2 - 5n + 1$$

$$a_0 = 100 - 50 + 1 = 51$$

$$t_n = -5, -1, 1, 5, 9, 13, \dots$$

$$\left\{ \begin{array}{l} +5 \\ +9 \\ +13 \end{array} \right\} \quad (1) \quad (2) \quad (3) \quad (4) \quad (5) \quad a_n = 2n^2 - n - 5$$

جواب 2 افغان

سج 2 درجہ

$$a + 2 = 2a + 1$$

$$a = 1$$

$$\frac{100}{a} = 20 \quad (C)$$

$$\left[\frac{100}{20} \right] = 5 \quad (10)$$

$$\left[\frac{100}{2} \right] = 50, \frac{100}{a} = 20 \rightarrow 50 + 20 = 70 \quad (C)$$

$$\left[\frac{100}{15} \right] = 6 \quad (C)$$