

الف $t_n = 3n^2 - 1$ $2, 11, 22, 47, 74$

ب $t_n = \frac{n+1}{n+4}$ $\frac{3}{5}, \frac{4}{9}, \frac{5}{9}, \frac{6}{8}, \frac{7}{9}$

الف $\frac{(-1)^{13}}{\sqrt{3+3}} = \frac{-1}{\sqrt{14}} = -\frac{1}{\sqrt{14}}$

ب $2 \times 13 - \left[\frac{13}{4} \right] = 26 - 3 = 23$

الف $2n-1 < 0$ $2n < 1$ $n < \frac{1}{2}$

ب $(n-1)(n-4)$

$\begin{array}{c} 1 \\ + \end{array} \begin{array}{c} 4 \\ - \end{array} \begin{array}{c} 1 \\ + \end{array}$

$2, 4, 7, 11, 16$

الف $2n-14 < 0$ $2n < 14$ $n < 7$

ب $(n-9)(n-3)$

$\begin{array}{c} 3 \\ + \end{array} \begin{array}{c} 9 \\ - \end{array} \begin{array}{c} 3 \\ + \end{array}$

$3, 4, 7, 11, 16$

$t_4 = 4a + b = 7$

$t_3 = 3 \times 3 - a = 4$

$t_4 = 4a + b = 7$

$-a = -10$ $a = 10$ $b = -37$

$$t_n = 9 - 1\Lambda + r = -V$$

سوال 4

(2)

$$t = 1^r + r + 1 = 4$$

$$t_1 = 4$$

$$-1 \rightarrow -r \rightarrow -1 \rightarrow +1 \rightarrow +r$$

$$-E_c - V_c - \Lambda_c - V_c - E_c$$

سوال 4

$$n^r - 9n + 1 \quad \text{لذا } 4 + 1 = 5$$

(2)

$$r_a = r$$

$$a = 1 \quad n - bn + 1$$

$$1 - b + 1 = -f$$

$$b = r + r$$

$$b = 4$$

$$t_n = -4, -1, \Lambda, 5, \dots$$

$$+4 \quad +9 \quad +16$$

$$r_a = f$$

$$a = r$$

$$r_n^r + bn - V \rightarrow r_n^r - n - V$$

$$r + b - V = -4$$

$$b = V - 4 - r$$

$$b = -1$$

$$[r_{a+1}, a + \epsilon]$$

$$r_{a+1} \leq a + \epsilon$$

$$a \leq r$$

سوال 4

(2)

الف) $\frac{99-3}{3} + 1 = 33$

سوال 1

ب) $\frac{100-5}{5} + 1 = 20$

2

ج) $\frac{90-10}{10} + 1 = 9$

$[A \cup B] = [A] + [B] - [A \cap B]$ $33 + 20 - 4 = 49$