

1. الف) $t_n = 2n - 1$ $t_1 = 1$ $t_2 = 3$ $t_3 = 5$ $t_4 = 7$

$t_f = 2V$ $t_a = 2E$

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

ج) $t_n = \frac{(-1)^n}{\sqrt{n+1}}$ $t_1 = \frac{1}{\sqrt{2}}$ $t_2 = \frac{-1}{\sqrt{3}}$ $t_3 = \frac{1}{\sqrt{4}}$ $t_4 = \frac{-1}{\sqrt{5}}$

د) $t_n = 2n - \left\lfloor \frac{n}{2} \right\rfloor = 24 - 2 = 22$

هـ. الف) $t_n = 2n - 10$ $2n - 10 < 0 \rightarrow 2n < 10 \rightarrow n < 5 \rightarrow 1, 2, 3, 4$

ب) $t_n = n^2 - 19n + 10 \rightarrow (n-10)(n-1) < 0$

$\frac{10}{10-1} \rightarrow 1, 2, 3, 4, 9 \rightarrow 10$

ج. الف) $t_n = 2n - 14$ $2n - 14 < 0 \rightarrow n < 7 \rightarrow 1, 2, 3, 4, 5, 6$

ب) $t_n = n^2 - 11n + 24 \rightarrow (n-8)(n-3) < 0$

$a = an + b \rightarrow 2a + b = 24$ $9a + b = 22$

$a = 12 \rightarrow a = 2$ $b = -10 \rightarrow 2n - 10 \rightarrow 9 - 2 = 7$

د. الف) $t_n = n^2 - 4n + 1 \rightarrow (n-2)^2 - 3$

ب) $n^2 + 8n + 1 \rightarrow (n+4)^2 - 15$

$n=1 \rightarrow t_1 = 0$ $n=2 \rightarrow t_2 = -3$ $n=3 \rightarrow t_3 = -4$ $n=4 \rightarrow t_4 = -3$ $n=5 \rightarrow t_5 = 0$

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