

$$t_n = 2n - 1 \Rightarrow 1, 3, 5, 7, 9, 11, 13, 15, 17, 19$$

$$t_n = \frac{2n+1}{n+1} \Rightarrow \frac{5}{3}, \frac{7}{4}, \frac{9}{5}, \frac{11}{6}, \frac{13}{7}, \frac{15}{8}, \frac{17}{9}, \frac{19}{10}$$

المسألة

الف

(-)

$$t_n = \frac{(-1)^n}{\sqrt{n+1}} \Rightarrow t_{100} = -\frac{1}{\sqrt{101}} \rightarrow -\frac{1}{\sqrt{101}}$$

الف

$$t_n = n - \left[\frac{n}{2} \right] \Rightarrow t_{100} = 100 - 50 = 50$$

(-)

$$t_n = 2n - 1 \rightarrow 2n - 1 < 0 \Rightarrow 2n < 1 \Rightarrow n < \frac{1}{2} \Rightarrow n \in \mathbb{N} \Rightarrow n = 0$$

الف

$$n = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$

$$t_n = n^2 - 12n + 40 \rightarrow t_n = (n-6)(n-10)$$

(-)

$$\frac{1}{1-1} = \frac{1}{0} \Rightarrow \text{لا يوجد}$$

$$t_n = 2n - 1 \Rightarrow n \in \mathbb{N} \Rightarrow n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100$$

$$t_n = n^2 - 12n + 40 \Rightarrow (n-6)(n-10) \rightarrow \frac{9}{1-1} \rightarrow [9, 9]$$

$$t_n = 7, t_9 = 9 - t_n = (9-7)d \Rightarrow d = 2 \Rightarrow d = 2$$

$$t_n = t_n + d \Rightarrow v = 7$$

$$t_n = n^2 - 9n + 2 \rightarrow t_n = 2 \Rightarrow n^2 - 9n + 2 = 2 \Rightarrow n^2 - 9n = 0 \Rightarrow n(n-9) = 0 \Rightarrow n = 0, 9$$

الف

$$t_n = n^2 - 9n + 2 \rightarrow t_n = 2 \Rightarrow n = 0, 9$$

$$t_n = n^2 + (n+1) \rightarrow t_n = 1 \Rightarrow n^2 + n + 1 = 1 \Rightarrow n^2 + n = 0 \Rightarrow n(n+1) = 0 \Rightarrow n = 0, -1$$

$$1 - \epsilon - v - n - r$$

$$t_n s_n r + b n + 1 \Rightarrow r, s | + b + | s - r - v \Rightarrow b s - \gamma$$

$$t_n s_n r - \gamma n + 1 \Rightarrow t_1, s | \dots - \gamma, + | s \in$$

$$-v - \gamma - 1 \wedge r$$

-1

$$t_n s_n r + b n - v \Rightarrow -\gamma s - r + b - v \Rightarrow b s - 1$$

$$a s \frac{a}{r} s r \Rightarrow t_n = r n r - n + v$$

$$(-\infty, a + r] \cap [ra + 1, +\infty) \rightarrow \text{متصل}$$

-9

$$ra + 1 < a + r \Rightarrow a < r \Rightarrow [-\infty, r]$$

$$\in \mathbb{N}, \Delta_1,$$

-1

$$1) \rightarrow t_n = r n \Rightarrow n:), r, r \sim, r r \rightarrow r r r$$

$$2) \rightarrow t_n, \omega n \Rightarrow 1, r, r \sim, r \rightarrow r r$$

$$3) \rightarrow \{r_n | n \in \mathbb{N}\} \cup \{\omega n | n \in \mathbb{N}\} \Rightarrow \omega r \Rightarrow \omega r$$

$$4) \rightarrow \{r_n | n \in \mathbb{N}\} \cup \{\omega n | n \in \mathbb{N}\} \Rightarrow \omega r \Rightarrow \omega r$$