

$$b) z_n = \frac{r_{n+1}}{n+r} \rightarrow \frac{r}{\omega}, \frac{\omega}{9}, 1, \frac{9}{\wedge}, \frac{11}{9}, \frac{1}{\omega}$$

$$c) t_n = 2n - \left[\frac{n}{r} \right] \Rightarrow t_{17} = 2(17) - \left[\frac{17}{2} \right] = 34 - [8.5] = 34 - 8 = \boxed{26}$$

$$c.) \pm_n = n^r - 1 \mp_n + r_0 \Rightarrow \begin{array}{c} r \quad 1_0 \\ + \quad - \quad + \\ | \quad | \quad | \end{array} \Rightarrow r < n < 1_0 \Rightarrow n = \{1, 2, 3, 4, 5, 6, 7, 8, 9\} \Rightarrow \boxed{10, 11}$$

$\therefore \pm_n = n^r - 1 \vee n + 2 \vee \Rightarrow \frac{r}{+} \frac{q}{-} \Rightarrow r \leq n \leq q \Rightarrow n = \{r, r+2, r+4, \dots, q\} \rightarrow \boxed{\text{No. } V}$

$$d = \frac{t_m - t_n}{m - n} = \frac{r - V}{q - r} = \frac{1d}{a} = r \rightarrow t_n = r_n + y \left. \begin{array}{l} \Rightarrow r(r) + y = V \Rightarrow y = V - r = -a \Rightarrow t_n = r_n - a \\ t_r = V \end{array} \right\} \Rightarrow t_r = r(r) - a = q - a = \boxed{r}$$

$$\text{الف) } t_n = n^2 - 6n + 7 \rightarrow \min \left| \frac{y}{x} = 2 \Rightarrow \boxed{t_3 = -7} \right.$$

$$\text{ب) } t_n = n^2 + 2n + 1 \rightarrow \min \left| \frac{-4}{9} = -2 \Rightarrow \boxed{t_1 = 9} \right.$$

$$t_n = -\frac{1}{2}n^2 - V_n - \frac{1}{2}n^2 - V_n - \frac{1}{2}n^2 - V_n \dots$$

$$1a = 2 \Rightarrow a = 1$$

$$t_0 = 1 = C$$

$$t_n = \frac{1}{2}n^2 + bn + 1 \Rightarrow \frac{1}{2} + b + 1 = -2 \Rightarrow b + 2 = -4 \Rightarrow b = -6$$

$$t_1 = -2 \Rightarrow t_n = \frac{1}{2}n^2 - 6n + 1 \Rightarrow t_{10} = \frac{1}{2}(10)^2 - 6(10) + 1 = 100 - 60 + 1 = \boxed{41}$$

$$t_n = -\frac{1}{2}n^2 - 1n^2 - \frac{1}{2}n^2 - \dots$$

$$1a = 4 \Rightarrow a = 2$$

$$t_0 = -V = C$$

$$t_n = \frac{1}{2}n^2 + bn - V \Rightarrow \frac{1}{2}(1)^2 + b - V = -4 \Rightarrow b - 4 = -4 \Rightarrow b = 0$$

$$\Rightarrow \boxed{t_n = \frac{1}{2}n^2 - n - V}$$

$$(-\infty, a + 4] \cap [2a + 1, +\infty) \rightarrow \text{مقاطع} \Rightarrow a + 4 < 2a + 1 \Rightarrow -a < -3 \Rightarrow a > 3 \Rightarrow \boxed{a = [3, +\infty)}$$

$$\text{الف) } 2, 6, 9, \dots \rightarrow t_n = 2n \Rightarrow 100 = 2n \Rightarrow n = \frac{100}{2} = \boxed{50}$$

$$\text{ب) } 4, 10, 16, \dots \rightarrow t_n = 4n \Rightarrow 100 = 4n \Rightarrow n = \frac{100}{4} = \boxed{25}$$

$$\text{ج) } 2, 6, 9, 12, \dots \rightarrow t_n = 12n \Rightarrow 100 = 12n \Rightarrow n = \frac{100}{12} = \boxed{8}$$

$$\text{د) } 22 + 20 - 6 = \boxed{36} = (\text{مجموع})$$