

زماران ۹۹۳۱..۴

$$a_n = \left(\frac{5}{7}\right)^n a. \quad (\text{ب} \quad a_n = \left(\frac{3}{7}\right)^n a. \quad (\text{ايف} - ۲ \quad ۱..۱)$$

$$a. = 14 \Rightarrow a_n = \left(\frac{3}{7}\right)^n 14 \quad (\text{ب} \quad a_n = \left(\frac{5}{7}\right)^n \left(\frac{10}{7}\right) \Leftarrow a. = \frac{10}{7} \quad (\text{ب} \quad$$

$$n \approx 47 \quad \Leftarrow \quad 2.. = (1, 10)^n \quad \Leftarrow \quad a_n = 1.. \left(1 + \frac{3}{2..}\right)^n \quad - ۵$$

$$141 = 606$$

$$a_n = a. (1, 10)^n = 7218, 27 \Rightarrow a. \approx 22.. \quad - ۶$$

$$1 + \dots + 9 = 45$$

$$(\text{ب} \quad 1 + 11 + \dots + 19 = 140)$$

$$(\text{ايف} - ۷$$

$$a_n = 4 \left(\frac{1}{2}\right)^n - 2(d)^n \quad (\text{ب} \quad a_n = \frac{3}{4}(-1)^n + \frac{5}{4}(4)^n \quad (\text{ايف} - ۱ \quad ۱..۲$$

$$a_n = 3 \sin \frac{n\pi}{4} \quad (\text{ب} \quad a_n = 4 + 3 \left(-\frac{1}{3}\right)^n \quad (\text{ب} \quad$$

$$a_n = (d - n) 3^n \quad (\text{ب} \quad a_n = 2 \left(\cos \frac{n\pi}{4} + \frac{1}{2} \sin \frac{n\pi}{4}\right) \quad (\text{ب} \quad$$

$$a_n = (\sqrt{2})^n \left(\cos\left(\frac{3\pi n}{4}\right) + 4 \sin\left(\frac{3\pi n}{4}\right)\right) \quad (\text{ب} \quad$$

$$n. \Rightarrow b. = -4 \quad n=1 \Rightarrow c. = -21 \quad r^2 - 4r - 21 = 0 \quad \begin{cases} r=7 \\ r=-3 \end{cases} \quad - ۳$$

$$a_n = A 7^n + B (-3)^n \Rightarrow \quad \text{[Scribbled out section]}$$

$$a_n = \frac{1}{4} \left(7^n - (-3)^n \right)$$

$$a_n = \frac{1}{\sqrt{5}} \left(\left(\frac{1+\sqrt{5}}{2}\right)^{n+1} - \left(\frac{1-\sqrt{5}}{2}\right)^{n+1} \right) \quad - ۴$$

$$\lim_{n \rightarrow \infty} \frac{\left(\frac{1+\sqrt{5}}{2}\right)^{n+1} - \left(\frac{1-\sqrt{5}}{2}\right)^{n+1}}{\left(\frac{1+\sqrt{5}}{2}\right)^n - \left(\frac{1-\sqrt{5}}{2}\right)^n} = \lim_{n \rightarrow \infty} \frac{\left(\frac{1+\sqrt{5}}{2}\right)^{n+1}}{\left(\frac{1+\sqrt{5}}{2}\right)^n} \cdot \frac{1+\sqrt{5}}{2} \quad (\text{ايف} - ۶$$

۱۰- a_n مقدار مرتبه b_n یعنی بالای آنها آب باشد و c_n یعنی آب نباشد

$$\begin{array}{l} a_n + (k-1)b_n + kc_n \\ \hline = (k-1)a_n + (k-1)a_{n-1} \end{array} \quad \begin{array}{l} a_1 = k \quad a_2 = 1 \\ \hline F_1 \end{array}$$

1 2 3 4 5 6 7

$$\gamma F_n$$

- 13

$$a_{r-1}, a_{r-2}, \dots, a_1, a_0, \quad a_n = a_{n-1} + a_{n-2} - 1/r$$

$$\underline{x_{n+1} = x_{n+1} - x_n} \quad r_{n+1} = r_n + r_c \quad \begin{cases} r_c = 1 \\ r_c = 1 \end{cases} \quad -10$$

$$x_n = f(x^n) - w$$

$$D_n < n+1 \quad n \geq 1 \quad - 19$$

$$r < \frac{\epsilon}{2}$$

$$b_{n+r} - db_{n+1} + b_{n+1} \mid b_n a_n^r - 1$$

$$a_n = \sqrt{\partial f(x)^n - w_d}$$

$$a_n = r + n(n-1)^r \quad a_n = r + n(n+1)^r$$

$$a_n = r^n + n(r^{n-1}) \quad (= \frac{d}{dx} (r^n) = n r^{n-1} \cdot r) \quad (= \frac{d}{dx} (r^n) = n r^{n-1} \cdot r)$$

$$b_n = r^n \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 3} \end{array} \right) \quad \left(\begin{array}{c} n \\ r \end{array} \right)$$

$$a_n = \frac{w}{r} (-1)^n + \frac{-r}{0} (-r)^n + \frac{1}{r} (r)^n \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 4} \end{array} \right)$$

$$a_n = \frac{r}{q} (-r)^n - \frac{d}{s} (n) (-r)^n + \frac{v}{q} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 5} \end{array} \right)$$

$$a_n = \frac{d}{r} - \frac{1}{r} (-1)^n - \frac{1}{r} \sin \frac{n\pi}{r} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 6} \end{array} \right)$$

$$a_n = -r(r)^n + \frac{1v}{1n} n r^n + \frac{v}{1n} n^2 r^n + r^2 r^n \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 7} \end{array} \right)$$

$$a_n = C_1 + C_2 n + C_3 n^2 - \frac{w}{r} n^3 + \frac{d}{r^2} n^4 \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 8} \end{array} \right) \quad \left(\begin{array}{c} r=1 \\ C_1 \end{array} \right)$$

$$a_n = r^n + n r^{n-1} - 1$$

$$a_n = \sqrt{\frac{w}{r} r^n - d(r)^n + \frac{v n}{r} + \frac{r1}{r}} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 9} \end{array} \right)$$

$$a_n = r \quad b_{n+1} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 10} \end{array} \right) \quad a_n = \frac{n! \times (1 + (-1)^n)}{r} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 11} \end{array} \right)$$

$$s_r = \frac{n(n+1)(n+r)}{r} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 12} \end{array} \right)$$

$$s_{99999} - s_{1.4} = 1,440 \times 1.4 \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 13} \end{array} \right) \quad s_{1.4} \quad \left(\begin{array}{c} \text{ب} \\ \text{الف - 14} \end{array} \right)$$