

$$\frac{a}{q} \times a \times aq = a^3 = 9^3 \Rightarrow a = 9$$

$$\frac{9}{q} + 9 + 9q = 21 \Rightarrow 9 + 9q + 9q^2 = 21q \Rightarrow 9q^2 - 12q + 9 = 0$$

$$(3q-1)(3q-9) = 0$$

$$\Rightarrow q = \left\{ \left(\frac{1}{3} \right), \frac{14}{9} = \frac{14}{9} \right\} \rightarrow \text{عقده} \quad \boxed{q = \frac{1}{3}}$$

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$$K_1^2 = a^2 + 2a^2 - 1 \Rightarrow a^2 - 2a - 1 = 0 \Rightarrow (a-3)(a+1) = 0$$

$$\Rightarrow a = \begin{cases} 3 \rightarrow a_1, a_2, a_3 \\ -1 \rightarrow a_1, a_2, a_3 \end{cases} \rightarrow \begin{cases} 3 \rightarrow q = \frac{1}{3} \checkmark \\ -1 \rightarrow q = -1 \rightarrow \text{عقده} \end{cases}$$

$$S_v = a \left(\frac{q^v - 1}{q - 1} \right) = 1 \left(\frac{1 - \frac{1}{3^v}}{1 - \frac{1}{3}} \right) = 1 \cdot \frac{\frac{12V}{12A}}{\frac{2}{3}} = \frac{12V}{A} = \boxed{10, 12V}$$

$$a + aq + aq^2 + aq^3 + aq^4 = a(1 + q + q^2 + q^3 + q^4) = \frac{121}{11}$$

$$121 \times \frac{121}{11} = \boxed{121}$$

$$a_1 + a_v = a_r + a_r \Rightarrow a_r = \frac{9^3 + 1}{9} = 12, \omega = A$$

$$b_r^2 = b, b_v = 1 \times 9^3 \Rightarrow b_r = \pm 1$$

$$A+B \rightarrow \begin{cases} 12, \omega \checkmark \\ 12, \omega \checkmark \end{cases}$$

$$\frac{-99}{9}, \frac{-9\omega}{9}, \dots \Rightarrow a_{1,1} = a_{1,0} \dots = -12 + \frac{1}{9} = \boxed{1}$$

$$\frac{a_1}{a_1} = q^v = \frac{1}{12} \Rightarrow q = \left(\frac{1}{12} \right)$$

$$\left(q = \frac{1}{12} \right)$$

$$a_v^r = a_p \times a_q \Rightarrow (a + qd)^r = (a + d)(a + 1d) = a^r + 1rad + r^2d^r$$

$$1rad + r^2d^r = 1 \cdot da + 1^2d^r$$

$$1 \cdot r \cdot d^r = -1rad \Rightarrow \begin{cases} d = c \\ d = \frac{-a}{1 \cdot r} \end{cases}$$

$$a_r^r = a_r \times a_1 \Rightarrow (a + r d)^r = (a + d)(a + v d) \Rightarrow d^r + r a d + r d^r = d^r + r a d + v d^r$$

$$\Rightarrow r d^r = r a d \Rightarrow d^r - a d = 0 \Rightarrow d(d - a) = 0 \Rightarrow d = \begin{cases} a \\ 0 \end{cases} \rightarrow \text{جملات متساویانند پس } 0 \text{ ن}$$

$$\begin{matrix} a_r & a_r & a_n \\ r d & r d & n d \end{matrix} \Rightarrow q = r$$

$$a_1 = a, q^q = \frac{1}{r} \times r^q = r^q = \boxed{128}$$

$$\left. \begin{matrix} b_1, b_2, b_3 \\ raq, raq^2, aq^3 \end{matrix} \right\} \begin{matrix} 2b_2 = b_1 + b_3 =, raq^2 = raq + aq^3 \\ \Rightarrow aq(1q) = aq(1 + q^2) \end{matrix}$$

چون غیر ثابت است aq ، اساده می کنیم.

$$= raq = 1 + q^2 \Rightarrow q^2 - raq + 1 = 0 \Rightarrow q = \begin{cases} 1 & \times \\ 1 & \checkmark \end{cases}$$

غیر ثابت $\rightarrow$

[illegible]

$$\frac{a_r}{a_r} = \frac{a_r}{a_1} = q^r = \frac{1 - r}{r - 1} = 1 \Rightarrow q = r$$

$$a + aq^r + aq^r = Vr \Rightarrow a + 1a + 9ra = Vr \Rightarrow a = 1$$

$$b_1 = a_1 = 1$$

$$b_r - b_1 = \underline{d = V}$$

$$b_r = a_r = 1a = 1$$