

$$a_1 = \varepsilon_0 \quad d = \frac{\varepsilon_1 - \varepsilon_0}{c} = v$$

$$a_1 + cd = \varepsilon_1$$

$$t_n = v_n + cd \Rightarrow v_n = v_n + cd \Rightarrow v_n = v_n \Rightarrow \boxed{n = 20}$$

در بالا آمده که هر یک از اینها دارای ۲ دارنده $\rightarrow 1, 2, 3, \dots, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30$

$$a_1 = 101$$

$$\frac{99v - 61}{v} + 1 = \boxed{119}$$

$$99v = 119v$$

$$a_1 + nd + a + (n+1)d + a + (n+2)d = ca + cnd + cd = -\varepsilon_{n+2}$$

$$\Rightarrow (a + cd)(n+1) = \frac{\varepsilon}{2}(n+1) \Rightarrow \frac{\varepsilon}{2}(n+1) = -\varepsilon_{n+2} \rightarrow a_n + a_{n+1} = \boxed{-\varepsilon}$$

$$a_{10} + a_n = 2a + cd = (a+11, cd) \rightarrow n=10, cd$$

$$r^{n-1} - 1 + r^n - r = r^{n+2}$$

$$r^n + r - \varepsilon \rightarrow (r^n)(1 + \varepsilon) - \varepsilon = \varepsilon r^n \rightarrow 0 - r^n = \varepsilon - \varepsilon \rightarrow 1 - r^n = 0$$

$$1) 1 = r^n \rightarrow r - n = 0 \Rightarrow n = 7$$

$$\left. \begin{array}{l} r^n - 1 = \varepsilon \\ r^{n+1} = 1 \\ r^n - \varepsilon = 1 \end{array} \right\} \boxed{14}$$

$$t_{12} + t_{10} = 0 \Rightarrow 2d = 0 \Rightarrow d = +\frac{\varepsilon}{2}$$

$$t_{10} + t_{12} = 20 \Rightarrow 2t_1 + 20d = 20 \Rightarrow t_1 + 10d = 10 \Rightarrow t_1 + \varepsilon = 10 \Rightarrow t_1 = 10 - \varepsilon$$

$$t_{11} = -10 + 20 \times \frac{\varepsilon}{2} = -10 + 10\varepsilon = 10\varepsilon$$

$$\left. \begin{array}{l} c(a+10d) = ca + c10d \\ 10a + 10d = ca + c10d \end{array} \right\} \cdot a = cd \rightarrow a = \frac{1}{r}d$$

$$\Rightarrow \frac{a+d}{2} = \frac{\frac{1}{2}dk}{\frac{1}{2}d} = \boxed{\mu}$$

$$a_+ \zeta d = a_+ | \omega_- \rangle, \zeta d = | \omega_- \rangle, d = \omega_-$$

$$t_q^r + t_o^r = (a + nd)^r - (a + \epsilon d)^r = a^r + r\epsilon d^{r-1} + \dots + \epsilon^r d^r - a^r - r\epsilon d^{r-1} - \dots - \epsilon^r d^r$$

$$\Rightarrow \epsilon n d^r + n a d = n d (\epsilon d + a) \rightarrow \frac{\epsilon n d + n a d}{a + \epsilon d} = \frac{\epsilon_0 (\epsilon_0 + a)}{\epsilon_0 + a} = \boxed{\epsilon_0}$$

$$\frac{2 + \sqrt{c} - 2 + 12\sqrt{c}}{12 + 1} = \frac{12\sqrt{c}}{12} = \boxed{\sqrt{c}}$$

$$x, \underbrace{0, 0, 0}_{+9}, \underbrace{\textcircled{0}, 0}_{+1}, \underbrace{0, 0}_{+1}, \underbrace{0, 0}_{+1}, \underbrace{0, 0}_{+1}, \underbrace{0, 0}_{+1}, \underbrace{0, 0}_{+1}, \underbrace{\textcircled{0}}_{+1} \rightarrow p | \varepsilon_n - 1$$

$$\frac{r_k - r}{r_{n-1}} = \frac{1}{r_{n-1}} = d \quad a_m = 11 \Rightarrow r + (m-1)d \frac{10}{r_{n-1}} = 11 \Rightarrow q = \frac{10(m+1)}{r_{n-1}}$$

$$\Rightarrow g(r_{n-1}) = \omega(m+1) \Rightarrow r_n - c = 0m + 0 \Rightarrow r_n = 0m - r \Rightarrow n = \frac{0m - r}{\varepsilon}$$

$\frac{m - 2}{4} = h \Rightarrow \boxed{h = 2}$

$$a_n + a_n \cdot \varepsilon = a_1 + r d + a_1 + 19d$$

$$a_n + a_{n+d} = (a_1 + (n-1)d) + (a_1 + (n+d-1)d) = 2a_1 + (2n+d-2)d$$

$$\Rightarrow a_n = a_1 + v d \Rightarrow a_n = a_1 \Rightarrow n = 1$$

$$a_n = c a_{n-1} \Rightarrow a_1 + v d = c a + q d \Rightarrow v a = -v d \Rightarrow a = -d$$

$$a_n = a_1 + (n-1)d = -d + nd - d = 0 \Rightarrow -d + nd = 0 \Rightarrow \boxed{n=2}$$