

$$\left. \begin{array}{l} a_1 = \varepsilon \\ a_\varepsilon = \gamma_1 \end{array} \right\} \Rightarrow d = \frac{\gamma_1 - \varepsilon}{\varepsilon - 1} = V \Rightarrow a_n = Vn + \gamma_1$$

$$\gamma_1 = Vn + \gamma_1$$

$$1 \cdot 0 = Vn$$

$$\boxed{n = 20}$$

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$$1.1 \leq Vn + \gamma_1 \leq 99V$$

$$1 \leq Vn \leq 99$$

$$1 \leq n \leq 100$$

$$1 \leq n \leq 100 \Rightarrow \boxed{100}$$

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$$a_{n+1} + a_{n+2} + a_{n+3} = -\gamma_{n+1} \Rightarrow \begin{cases} 2(a_{n+1}) = -\gamma_{n+1} \\ a_{n+1} = -\gamma_{n+1} \end{cases}$$

$$a_{n+1} + a_{n+2} = \gamma_{n+1}$$

طبق اصل بنیادی:

$$a_{11} + a_{11} = a_{11} + a_{11}$$

$$(-2(11) + \varepsilon) + (-2(11) + \varepsilon)$$

$$-14 + 11 = \boxed{-3}$$

~~معمولی~~

$$a_r = r^x - 1$$

$$a_1 = r^{x-1}$$

$$a_{11} = r^{2x-1}$$

$$a_{11} - a_1 = a_{11} - a_1$$

$$\left\{ \begin{array}{l} r^{2x} - r^{x+1} \\ r^x(r^x - r) - r^x(r-1) - 1 \end{array} \right\} = r^x + 1$$

$$\begin{cases} r^x(r^x - r) - r^x(r-1) - 1 \\ r^x(r^x - r) = \varepsilon \Rightarrow \boxed{x=2} \end{cases}$$

$$a_r + a_1 + a_{11}$$

$$r^2 - r + r^{2+1} + r^2 - 1 = \boxed{2\varepsilon}$$

$$14 - 2 + 1 + \varepsilon - 1$$

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$$a_{11} - a_1 = 0 \Rightarrow 2d = \Delta \Rightarrow \boxed{d = 20}$$

$$a_{11} + a_1 = 20 = a_1 + a_{11} = -10 + a_{11} \Rightarrow \boxed{a_1 = 30}$$

$$20 + 20 = 40$$

$$\boxed{a = -10}$$

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$$\mu_{g-1} = \mu_{\omega}$$

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$$\frac{d}{dt}(a_0 + a_1) = r \left(\frac{d}{dt}(a_1 + a_0) \right)$$

$$a_0 + a_1 = r(a_1 + a_2)$$

$$(a_1 + ad) + (a_2 + ad) = r(a_1 + a_2)$$

$$1. d = r_{a_1} + r_{a_0}$$

$$1. dz \text{ } \xi a + 1 d \Rightarrow d = \tau a$$

$$\Delta = \tau_a$$

$$a_1 \leq a_2$$

$$t_q^r - t_w^r = \frac{(t_q - t_w)(t_q + t_w)}{t_q + t_w} = \frac{(\cancel{t_q}^r - \cancel{t_w}^r)(r t_v)}{10} = \boxed{r t_v}$$

$t_q - t_\omega$
 $t_q + t_\omega$
 $t_r + t_\omega$

به دلیل اینکه دنباله یابگر است و مرتبه کل عدد از ۳۰ عدد پیش حدود ۱۰۰ است : $\Delta + T_n = 100$

$$d \frac{r(1 - \sqrt{r}) - (1 + \sqrt{r})}{r+1} = \frac{\cancel{r} - \cancel{1r}\sqrt{r} - 1 - \sqrt{r}}{r+1} = \boxed{\sqrt{r}}$$

$$\frac{r_T - r}{E_T - 1} = d = \frac{1 - r}{n} \Rightarrow r_n = r_{n-1} \cdot \underbrace{\left(\frac{n-1}{n} \right)}_{r}$$

$$t_r + t_{iv} = t_n + t_{n+f} \Rightarrow \boxed{\lambda = n}$$

$$a_n = a_1 = r a_r = r a_{\frac{n}{r}}$$

$$a + Vol \approx \tau_{at} + 9d$$

$$\bullet = r_a + r_d$$

$\therefore z = a + ib$

$o_2 d_f$