

$$ar, ar+rd, ar+4d$$

$$a+ar+ra$$

$$a+ra=9a$$

$$r_{\text{sub}} = r$$

$$\frac{a_1}{r_{\text{sub}}} = \frac{1}{r}$$

$$a_{n_1} = \frac{1}{r} ar^{n-1}$$

$$(ar+rd)^r = (a)(a+rd) \rightarrow a^r + \cancel{rd^r} + rrd = a^r + rrd$$

$$rd^r = rrd$$

$$rd = a$$

(P) ✓

$$war, rar, rar, rar$$

$$w(ar), r(ar^r), ar^r \rightarrow rar^r = \frac{rar + ar^r}{r} \rightarrow -rar^r + rar + ar^r = 0 \rightarrow ar(-r + r + r^r)$$

$$(r-1)(r-r) = 0$$

$$r = 1 \text{ or } r = r$$

(P) ✓

$$d = \frac{v}{\varepsilon} - r = -\frac{1}{\varepsilon} \rightarrow \left. \begin{array}{l} a_{\varepsilon} = r + \frac{v}{\varepsilon} = \frac{v}{\varepsilon} \\ a_1 = r - \frac{v}{\varepsilon} = -\frac{v}{\varepsilon} \\ a_{1^r} = r - \frac{v}{\varepsilon} = -1 \end{array} \right\} \frac{v}{\varepsilon} + u, \frac{1}{\varepsilon} + u, -1 + u$$

$$\left(\frac{1}{\varepsilon} + u\right)^r = \left(u + \frac{v}{\varepsilon}\right)(u-1)$$

$$\frac{1}{14} + u^r + \frac{1}{r}u = u^r + \frac{1}{\varepsilon}u - \frac{v}{\varepsilon} \rightarrow u = -\frac{\varepsilon}{v} - \frac{v}{\varepsilon}$$

$$f = \frac{-\frac{v}{\varepsilon} - \frac{v}{\varepsilon}}{-\frac{v}{\varepsilon}} = \frac{2}{1}$$

(P) ✓

$$a + ar^r + ar^r = vr$$

$$t_1 = a_1 = ar + r = ar = ar^r, t_{1^r} = ar = ar^r$$

$$\left. \begin{array}{l} tr = ar^r \\ tr = t_{1^r} = d \end{array} \right\} ar^r = a + d \rightarrow d = a(r^r - 1)$$

(P) ✓

$$t_{10} = ar^r = a + ar(r^r - 1) = a + ar \cdot r^r - ar \rightarrow ar^r - ar + ar = 0 \rightarrow$$

$$a(r^r - ar + 1) = 0, r^r = \frac{r \pm \sqrt{r^2 - 4}}{2}$$

$$\left. \begin{array}{l} \text{① } r^r = 1 \rightarrow r = r \\ \text{② } r^r = 1 \rightarrow r = 1 \end{array} \right\}$$

$$r = 1 \rightarrow a + a + a = vr$$

$$r = r \rightarrow a = \frac{vr}{\varepsilon} \rightarrow d = a(r^r - 1) = \frac{vr}{\varepsilon} a(1-1) = 0$$

$$\rightarrow a + ar + ar = vr \rightarrow a = 1 \rightarrow d = a(r^r - 1) = 1a(1-1) = 0$$

۱- امید ی / دوش

$$A_1 + A_r + A_w = P_1$$

$$A_1 \times A_2 \times A_3 = 4\epsilon \rightarrow \frac{A_1}{\gamma} + A_2 + A_3 = 4\epsilon \rightarrow A_1 = 4\epsilon \gamma$$

$$\frac{\Sigma}{\gamma} + \epsilon + \Sigma \eta = \nu$$

$$\frac{\epsilon}{r} + \epsilon q = 1V \rightarrow \frac{\epsilon \gamma^2 + \epsilon}{\gamma} = 1V \rightarrow 1V \gamma = \epsilon + \epsilon \gamma^2$$

$$\xi q^2 - 14q + \xi = 0 \rightarrow \Delta = 4 \cdot 14 - 4\xi = 4 \cdot 6 \rightarrow q = \frac{14 \pm \sqrt{36}}{2}$$

$$\frac{1V - 10}{1} = \frac{1}{2}$$

$$(u^p)^r = (u^p - r)(u^p + r) \longrightarrow \underbrace{1}_{\times \frac{1}{r}} \underbrace{2^p}_{\times \frac{1}{r}} \quad r = \frac{1}{r}$$

$$\xi u^p = u^2 + \tau u^p - \lambda$$

$$r u^p = u^2 - 1 \rightarrow u^2 - r u^p - 1 = 0 \rightarrow \underbrace{(u^p + r)}_{\substack{u^p = 2 \\ u = +r}} (u^p + r) = 0 \quad \text{C}$$

$$S_{r2} = \left(\frac{1 - \left(\frac{1}{r}\right)^N}{1 - \frac{1}{r}} \right) A = \left(1 - \frac{1}{1.125} \right) \times 14 = \frac{14 \times 0.125}{0.125} = \frac{14 \times 1}{1} = 14$$

۱ + ۲ + ۲^۲ + ۲^۳ + ۲^۴ = $\frac{151}{11}$ ————— ۵ پایی است که الی در جمله اول

$$K_{\text{eff}}(1 + \gamma + \gamma^2 + \gamma^3 + \gamma^4) = \frac{1.21}{1.1} \approx 1.1$$

$$\psi_1 \psi + \psi_2 \psi \gamma + \psi_3 \psi \gamma^2 + \psi_4 \psi \gamma^3 + \psi_5 \psi \gamma^4 = \psi \psi$$

$$\frac{98-1}{4} = \frac{a_1 n}{4} = 1.18 \rightarrow a_1 = 1.18n - 9.8$$

$$A_2 = 1,10(2) - 0,6 = 0,6 \rightarrow A$$

$$\gamma^q = \frac{\alpha \Sigma}{1} = \gamma^q = \alpha \Sigma$$

$$r = +r \rightarrow a_n = (x+r)^{n-1}$$

$$a_2 = 1 \alpha \nu^{\varepsilon-1} \rightarrow a_{\varepsilon} = \Lambda \rightarrow \beta$$

$$a_5 = -1 \rightarrow B$$

$$A+B \rightarrow \psi \gamma, b + 1 \geq \overline{\{0, b\}}$$

$$A+B \rightarrow \psi_{\ell, \sigma} - 1 = \psi_{\ell, \sigma}$$

$$d = -\frac{90}{2} + \frac{94}{2} = \frac{1}{2} \rightarrow an = \frac{n}{2} - \frac{9r}{2} \rightarrow a_{101} = \frac{101}{2} - \frac{9r}{2} = \frac{2}{2} = 1$$

$$a_{\text{Gib}} = 14.7\%$$

$$1 \leq \eta \leq \eta^* = 1$$

$$\gamma^v = \frac{1}{15\pi}$$

$$\gamma = \frac{1}{\tau}$$

a, w, a, r, a, g

$$9 + 8d, 9 + 4d, 9 + d \rightarrow a_1 r^0 + 4d r^1 + 16d^2 = a_1 r^0 + 14d r^1 + 16d^2 \rightarrow r_{od} r^1 = -r_{ad}$$

$$(a+4d)^F = (a+d)(1+d)$$

$$r_d(1, d + a_1) = 0$$

$$d = \frac{-1}{10}$$