

7) چون تابع فضا به ازای n درجه اول (α, β) در (α, β) قرار می‌گیرد:

$$n=0 \xrightarrow{(\alpha, \beta)} \beta = (1 - \gamma x_0) x - \frac{\gamma x_0 + \gamma}{\gamma} \Rightarrow \beta - \alpha = -\frac{\gamma}{\gamma}$$

$$x^2 - ax - 1 = 0 \Rightarrow S = a \tag{8}$$

$$ax^2 - \varepsilon x + a + \gamma = 0 \Rightarrow \rho = \frac{a + \gamma}{a}$$

$$\Rightarrow a = \frac{a + \gamma}{a} \Rightarrow a^2 - a - \gamma = 0 \Rightarrow (a + 1)(a - \gamma) = 0 \Rightarrow \begin{cases} a = -1 \\ a = \gamma \end{cases}$$

در $\gamma x^2 - \varepsilon x + \varepsilon = 0$ در صورتی که $ax^2 - \varepsilon x + a + \gamma = 0$ باشد $a = \gamma$ می‌باشد.

که در $\gamma x^2 - \varepsilon x + \varepsilon = 0$ در صورتی که $a = -1$ باشد قابل قبول است.

$$\Rightarrow \frac{c_{00}}{c_{10}} = \frac{-(1 - \gamma a)}{\gamma x_1} = \frac{-(1 + \gamma)}{\gamma} = -\frac{\gamma}{\gamma} = -1 \quad \text{در صورتی که}$$

$$\frac{\gamma_0}{\gamma - \gamma_0} = \frac{\gamma_0}{\gamma} + \frac{d}{\gamma} \Rightarrow \frac{\gamma_0}{\gamma - \gamma_0} = \frac{c_{00}}{\gamma} + \frac{\gamma_0}{\gamma \varepsilon} \Rightarrow \frac{1}{\gamma - \gamma_0} = \frac{1}{\gamma} + \frac{1}{\gamma \varepsilon} \quad \text{در صورتی که} \tag{9}$$

$$\Rightarrow \gamma^2 - \gamma_0 \gamma - \varepsilon \gamma_0 = 0 \Rightarrow (\gamma + \gamma_0)(\gamma - \gamma_0) = 0 \Rightarrow \begin{cases} \gamma = -\gamma_0 \\ \gamma = \gamma_0 \end{cases}$$

$\gamma = \gamma_0 \Rightarrow \gamma_0 - \gamma_0 \varepsilon = \gamma_0 - \gamma_0 \varepsilon \Rightarrow \gamma_0(1 - \varepsilon) = \gamma_0(1 - \varepsilon)$

$$4, 8, 8, 8 \Rightarrow \bar{x} = \frac{\gamma_0}{\varepsilon} = \gamma_0 \quad \text{در صورتی که} \tag{10}$$

$$\sigma^2 = \frac{\varepsilon + 14 + 4a - 14 + 2d}{\varepsilon} \tag{11}$$

$$\bar{x} = \frac{4 + \varepsilon + a + \gamma}{\varepsilon} = \frac{\gamma + a}{\varepsilon}$$

در صورتی که $\gamma = a$ باشد $\bar{x} = \frac{2\gamma}{\varepsilon}$

$$\pm 2, \pm \varepsilon, \pm \sqrt{4a - 14}, \pm d \xrightarrow{a=9} \text{مقادیر: } 4, \varepsilon, 9, 10$$

$$\Rightarrow \bar{x} = 8 \rightarrow \sigma^2 = \frac{\varepsilon + 14 + 1 + 2d}{\varepsilon} = 11 \quad \text{در صورتی که}$$

12. دو کلمه ۵ حروف اولی برابر هستند (چون $a=b$) پس در کلمات در سمت راست
 که بر یک تقسیم کردیم نتیجه شد

$$\sim [(\sim(qvr) \vee (qvr)) \vee p] \equiv \sim [(qvr) \wedge \sim(qvr)] \vee p \quad (13)$$

$$\equiv \sim [(qvr) \vee p] \wedge (\sim(qvr) \vee p) \equiv \sim((qvr) \vee p) \vee \sim(\sim(qvr) \vee p)$$

$$\equiv (\sim(qvr) \wedge p) \vee ((qvr) \wedge \sim p) \equiv (\sim q \wedge r \wedge p) \vee (q \wedge \sim r \wedge p)$$

$$1a_{00} = b+a \Rightarrow b-n = 0 \wedge b \Rightarrow n = 0 \vee b \quad (14)$$

$$\frac{b-n}{10a} \times 100 = \frac{b}{10a} \times 100 - d \Rightarrow \frac{100b}{10a} = \frac{100b}{10} - d \Rightarrow 10b = 100 - d \Rightarrow b = 10 - \frac{d}{10}$$

$$\Rightarrow n = 0 \vee 10 - \frac{d}{10} = 10 - \frac{d}{10} \Rightarrow \frac{d}{10} = 0 \vee \frac{d}{10} = 10 \Rightarrow d = 0 \vee d = 100$$

$$\frac{100 - x}{100} \times 100 = \frac{1}{10} \times 100 \Rightarrow \frac{100 - x}{100} = \frac{10}{100} \Rightarrow 100 - x = 10 \Rightarrow x = 90$$

$\Rightarrow 2x + 2y = 190 \Rightarrow 2y = 190 - 2x$
 $\Rightarrow y = 95 - x$
 $\Rightarrow 95 - x > 0 \Rightarrow x < 95$
 $\Rightarrow x < 95$

$$S = xy \Rightarrow S(x) = x(95 - x) = 95x - x^2$$

$$\begin{array}{c} \Sigma \\ \hline X \\ \hline \Sigma \end{array} \quad \begin{array}{c} 3 \\ \hline X \\ \hline \mu \end{array} \quad \begin{array}{c} 2 \\ \hline X \\ \hline \text{میانگین} \end{array} \quad \begin{array}{c} 2 \\ \hline X \\ \hline \text{میانگین} \end{array} = \Sigma 1$$

$$\begin{array}{c} \Sigma \\ \hline X \\ \hline \Sigma \end{array} \quad \begin{array}{c} 1 \\ \hline X \\ \hline \mu \end{array} = \Sigma 4$$

$\Rightarrow \Sigma 1 + \Sigma 4 = \Sigma 5$

$$n(S) = \binom{V}{Y} = \frac{V \times Y}{Y} = V$$

$$n(A) = \binom{Y}{Y} \times \binom{V}{Y} + \binom{Y}{Y} \times \binom{Y}{Y} \times \binom{V}{V} + \binom{Y}{Y} \times \binom{V}{Y} \times \binom{V}{Y} = 1 + V + V^2$$

1) $\binom{Y}{Y}$ $\binom{V}{Y}$ $\binom{V}{V}$ $\binom{Y}{Y}$ $\binom{Y}{Y}$ $\binom{V}{Y}$ $\binom{V}{Y}$

$$\Rightarrow P(A) = \frac{1+V+V^2}{V}$$

$$n=2 \rightarrow a_1 r = a_4 e a_7 = 1 + 1 = 2$$

$$n=3 \rightarrow a_1 r^2 = a_4 r e a_7 = 1 + 2 = 3$$

$$n=4 \rightarrow a_1 r^3 = a_4 r^2 e a_7 = 1 + 3 = 4$$

$$n=5 \rightarrow a_1 r^4 = a_4 r^3 e a_7 = 1 + 4 = 5$$

$$n=6 \rightarrow a_1 r^5 = a_4 r^4 e a_7 = 1 + 5 = 6$$

$$n=7 \rightarrow a_1 r^6 = a_4 r^5 e a_7 = 1 + 6 = 7$$

$$n=8 \rightarrow a_1 r^7 = a_4 r^6 e a_7 = 1 + 7 = 8$$

$$\text{جواباً } y^2 = xz \quad \text{بجانباً } y^2 = x^2 + 2 \Rightarrow y = \frac{x^2 + 2}{y}$$

$$\Rightarrow \left(\frac{x^2 + 2}{y} \right)^2 = xz \Rightarrow x^2 + 4 + \frac{4}{y^2} = xz$$

$$\Rightarrow x^2 + 4 + \frac{4}{y^2} - xz = 0 \xrightarrow{\div 2} \left(\frac{x}{2} \right)^2 + 2 - \frac{1}{2} xz = 0$$

$$t^2 - 2zt + 4 = 0 \Rightarrow (t-1)(t-3) = 0 \Rightarrow \begin{cases} t=1 \text{ أو } 3 \\ t=3 \text{ أو } 1 \end{cases}$$

بجانباً $x=2$ $\frac{x}{2}=1$ $\sqrt{\frac{x}{2}}$ $t=1$ $\sqrt{\frac{x}{2}}$
 بجانباً $x \neq 2$ $t=3$ $\sqrt{\frac{x}{2}}$

$$k + \sum_{n=1}^{\infty} \frac{na-b}{\epsilon^n} = 0 \Rightarrow k + \frac{\sum_{n=1}^{\infty} na}{\epsilon^b} = 0 \Rightarrow k = -\frac{\sum_{n=1}^{\infty} na}{\epsilon^b}$$

$$k + \sum_{n=1}^{\infty} \frac{1}{\epsilon^n} = m \Rightarrow k + \frac{1}{\epsilon^b} = m \Rightarrow \frac{1}{\epsilon^b} - \frac{\sum_{n=1}^{\infty} na}{\epsilon^b} = m$$

$$\Rightarrow \sum_{n=1}^{\infty} na - 1 = -\epsilon^b \times m \Rightarrow r^{na} + r^b \times m = 1$$

$$\frac{m = -r}{n=r} \rightarrow \begin{cases} \sum_{n=1}^{\infty} na = 1 \Rightarrow a = \frac{1}{\epsilon} \\ r^{b+1} = 0 \Rightarrow b = -\frac{1}{r} \end{cases}$$

$$\frac{\sum_{n=1}^{\infty} na}{\epsilon^b} = 0 \Rightarrow k + \frac{\sum_{n=1}^{\infty} na}{\epsilon^{-\frac{1}{r}}} = 0 \Rightarrow k = -\sum_{n=1}^{\infty} na$$

$$\Rightarrow bk = \left(-\frac{1}{r}\right) \times (-\epsilon) = \epsilon$$

(۳) $\frac{1}{r} = \epsilon$

موفقیت شما از من است

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