

۲۲ تلف - دم بران

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$$\alpha + B = \Delta \rightarrow \alpha = \Delta - B$$

سوال ۱

$$\alpha \times B = 2 \rightarrow B = \frac{\Delta \pm \sqrt{17}}{2}$$

$$\left. \begin{array}{l} B^2 = \Delta B - 2 \\ B^3 = \Delta B^2 - 2B \end{array} \right\} \begin{array}{l} B^2 \times B^3 = B^5, 11\Delta B^2 - 99B + 2 \\ B^3 = \Delta B^2 - 2B \end{array}$$

$$\hookrightarrow B^3 = 23B - 10$$

$$4\alpha = 20 - 4B \rightarrow \frac{4\alpha + B^0}{\Delta B^2} = \frac{110 B^2}{\Delta B^2} + \frac{100 B}{\Delta B^2} - \frac{40}{\Delta B^2}$$

$$= \frac{23}{\Delta} + \frac{20}{B} - \frac{1}{B^2} \quad \text{واریانس } \Delta \text{ ها} \approx 19$$

$$\hookrightarrow \frac{4(\Delta - B) + B^0}{\Delta B^2} = \frac{90(\Delta B - 4)}{\Delta(\Delta B - 2)} = 19$$

$$f(x) = ax^2 + bx + c$$

سوال ۲

$$\left. \begin{array}{l} f(2) = -4 \rightarrow -4 = 4a + 2b + c \\ f(1,5) = -4 \rightarrow -4 = 2,25a - 1,5b + c \end{array} \right\} \text{اضلاع } 9,50a + 4,5b = 0$$

$$\rightarrow 9,50a = 4,5b \rightarrow b = -1,5a$$

$$5 = \frac{b}{a} = \frac{-1,5a}{a} = -1,5$$

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$$\Delta = FK^r - r_0 = F(K^r - \Delta) \rightarrow \frac{\sqrt{\Delta}}{|a|} = \frac{r\sqrt{K^r - \Delta}}{1} \quad \leftarrow \text{سوال ۳}$$

$$r\sqrt{K^r - \Delta} = \frac{r}{r} K \rightarrow \cancel{FK^r - r_0} = \frac{r}{r} K^r$$

$$\rightarrow K^r - \Delta = \frac{r}{r} K^r \rightarrow K^r = \frac{r}{r} K^r + \frac{r\Delta}{r}$$

$$\cancel{\frac{\Delta}{r}} K^r = \frac{\cancel{r\Delta}}{r} \rightarrow K^r = r \quad , \quad \left[\frac{K^r}{r} \right] = \left[\frac{r_0}{r} \right] = \left[r \right]$$

$$K_5 = \frac{-0 + \sqrt{}}{2} = \frac{\alpha + \beta}{2} \rightarrow \alpha + \beta = 2 \quad \leftarrow \text{سوال ٥}$$

$$\rightarrow \alpha^2 + \beta^2 = 4 - 2\alpha\beta \rightarrow \alpha\beta = \frac{1}{2}$$

$$\text{عبارت اولیه} \rightarrow \frac{\alpha + \beta}{2} = 1 \rightarrow (-1, K-1)(\alpha - \beta)$$

$$\rightarrow K = \frac{1}{2} \rightarrow K\beta = \frac{1}{2} \rightarrow \text{نتیجه} \rightarrow \left(\frac{1}{2}, 0\right)$$

$$-(x' - 0x - m)_{\leq 0} \rightarrow x < \frac{\frac{\sqrt{km+10}-0}{r}}{\frac{\sqrt{km+10}+0}{r}}$$

← 0 قال

$$\rightarrow \frac{\sqrt{km+10}+0}{r} < r/0 \rightarrow \sqrt{km+10}+0 < 9$$

$$\rightarrow \sqrt{km+10} < 9 \rightarrow km+10 < 81 \rightarrow km < 71 \rightarrow m < -r/10$$

$$\Delta \rightarrow 18+km > \dots \rightarrow km > -10 \rightarrow m > \frac{-10}{k}$$

TANDIS $-r/10 > m > -9/10 \rightarrow m = -9, -8, -7, -6, -5, -4, -3, -2, -1, 0$ 25/10

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$$J_{ext} = \gamma_s \frac{\gamma_0 m^2 - \epsilon m - 1 \epsilon \epsilon}{\epsilon m} \Rightarrow \gamma_0 m^2 - \epsilon m - 1 \epsilon \epsilon = \lambda m \quad \leftarrow \text{باله}$$

$$\rightarrow m = \gamma \rightarrow \gamma = m \kappa^2 - 1 \epsilon \kappa + \epsilon m - 1 = \gamma \kappa^2 - 1 \epsilon \kappa + 1 \epsilon$$

$$\rightarrow \kappa = \frac{-b}{\gamma a} = \frac{1 \epsilon}{\gamma} \quad \boxed{\gamma}$$

مثال ۷

$$\left. \begin{aligned} \alpha + \beta &= \frac{b}{a} = r(a+1) \\ \alpha \beta &= \frac{c}{a} = r\alpha - 1 \end{aligned} \right\} \begin{aligned} a^r &\rightarrow ra-1, a^r - ra+1 = 0 \\ (a-1)^r &\rightarrow a = 1 \end{aligned}$$

سوال ۷ ←

زوج اول → $\Delta = 0$ سوال ۱ ←

$$t^2 - vt - 0 = 0 \rightarrow t = \frac{v \pm \sqrt{49}}{2}$$

$$\frac{c}{a} = -0 \rightarrow r \times r0 = 0 + 0 = \boxed{0}$$

$$u_s = \frac{-b}{ra} + \frac{r}{rK} = \frac{r}{K} - y, K\left(\frac{r}{K}\right)^2 - \frac{r}{K} - 4$$

سوال ۹ ←

$$\rightarrow y = \frac{r}{K} - \frac{1}{K} - 4 = \frac{r}{K} - 4$$

$$-rK - r = -r\left(\frac{r}{K}\right) - r = \frac{r}{K} - 4 \rightarrow \frac{r}{K} = r \rightarrow K = r$$

$$y = \frac{r}{r} - 4 = -1$$

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$$-m - n = -m^2 + mn + 1$$

مثال ۱۰

↓

$$m^2 - (m+1)n - (m+1) \leq 0 \Rightarrow \Delta < 0$$

$$\rightarrow (m+1)^2 - 4(m^2 + m) < 0 \rightarrow m^2 + 2m + 1 + 4m^2 + 4m < 0$$

$$\rightarrow 5m^2 + 6m + 1 < 0 \quad \text{یعنی} \quad m^2 + 4m + 1 = (m+2)(m+1)$$

$$\rightarrow m < \frac{-1}{5} \rightarrow m \in \left[-1, -\frac{1}{5} \right)$$

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