

اس سے مسئلہ حل ہو گا

۲۰ افین!

$$1) \left. \begin{aligned} S: \alpha + \beta &\xrightarrow{B: \alpha} S: \alpha \geq \frac{4}{\mu} \rightarrow a = 12\alpha \\ P: \alpha \beta &\xrightarrow{P: \alpha \beta} P: \alpha \beta = \frac{4}{\mu} \rightarrow \alpha \geq \frac{4}{\mu} \rightarrow \alpha \geq \frac{4}{\mu} \end{aligned} \right\} \rightarrow a \geq \pm 1 \rightarrow |1 - (-1)| = 2 \quad (2) \quad (19)$$

$$2) \frac{1}{\sqrt{\beta}} + \frac{1}{\sqrt{\alpha}} = \frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} = 8 \xrightarrow{\frac{1}{\sqrt{\alpha}} = \frac{1}{\sqrt{\beta}}} \frac{S: \sqrt{\alpha} + \sqrt{\beta}}{P: \frac{1}{\sqrt{\alpha}}} = 8 \xrightarrow{S: \frac{1}{\sqrt{\alpha}} = \frac{1}{\sqrt{\beta}}} m = -1 \quad (2)$$

$$3) \rightarrow 3x + 2 - x^2 = 0 \rightarrow \frac{c}{a} = \frac{2}{-1} = -2 \quad (2) \quad \checkmark$$

$$(x + \beta)^2 - (x - \beta)^2 = 4\alpha\beta \rightarrow 1 - (x - \beta)^2 = -1 \rightarrow (x - \beta)^2 = 2 \quad (2)$$

$$\rightarrow |x - \beta| = \sqrt{2} \quad \alpha > \beta \rightarrow \alpha - \beta = \sqrt{2}$$

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

$$\rightarrow -x^2 + 9 + k - 1 = 0 \rightarrow k = \frac{1}{4} \quad \checkmark$$

$$4) 3\alpha^2 + 2\beta^2 = 210(\alpha^2 + \beta^2) + 010(\alpha^2 - \beta^2) = 210(149 - 2a) + 010(-\sqrt{49 - 2a}) \quad (2) \quad (-4)$$

$$\rightarrow 9 = -8a + 9\sqrt{-a + 9} = 18 + 12\sqrt{4} \rightarrow a = 1 \quad \checkmark$$

$$5) \omega = 1 \text{ جی } 25 = 0$$

$$2P^2 - 35P + 15 = 2P^2$$

$$\rightarrow x^2 - \sqrt{4}x^2 - 8 = 0 \rightarrow \alpha = \frac{2 + \sqrt{V + 49}}{2} \quad (2)$$

$$\rightarrow \mu P^2 = (V + \sqrt{49})^2 \times 2 = 111 + 14\sqrt{49}$$

$$= 89 + 14\sqrt{49} \quad \checkmark$$

$$1) \alpha + 010 \text{ جی } 11 - 4\alpha + \beta = 0 \rightarrow \alpha = \frac{11 + \beta}{4}$$

$$\frac{S = \frac{a}{P}}{P = \frac{b}{P}}$$

$$\frac{S = \frac{1}{P}}{P = \frac{1}{P}}$$

$$S = \alpha + 010 + \beta + 010 = 5 + 1 = -\frac{1}{P} + 1 = \frac{1}{P} = \frac{a}{P} \rightarrow a = 1$$

$$P = (\alpha + 010)(\beta + 010) = -\frac{1}{P} + (-\frac{1}{P}) + \frac{1}{P} = -\frac{1}{P} = \frac{b}{P} \rightarrow b = -1$$

$$\rightarrow \left[\frac{a}{P} \right] = \left[-\frac{1}{P} \right] = \left[-\frac{1}{P} \right] = \left[-\frac{1}{P} \right] \quad \checkmark$$

$$\begin{aligned}
 \text{v)} \quad & a_1^T - a_1 - b \geq 0 \xrightarrow{a_1^T \geq 0, a_1 - b \geq 0} \frac{\pi_1^T}{\pi_1} \rightarrow \begin{cases} \pi_1 a_1^T \geq \pi_1 a_1 + b \\ \pi_1 \beta^T \geq \pi_1 \beta + b \end{cases} \quad (r) \\
 & \rightarrow \pi_1 \beta^T + \pi_1 a_1^T - \pi_1 \beta - \pi_1 a_1 \geq 0 \rightarrow \pi_1 \beta + \pi_1 a_1 + b - \pi_1 \beta - \pi_1 a_1 \geq 0 \rightarrow \pi_1 b \geq 0 \rightarrow b \geq 0 \\
 & \rightarrow \pi_1 a_1^T - \pi_1 a_1 + 1 \geq 0 \text{ معادله} \\
 & \rightarrow |a - \beta| = \frac{1\sqrt{\delta}}{\pi_1} \left(\frac{\pi_1 \sqrt{\delta}}{\delta} \right) \checkmark
 \end{aligned}$$

$$\begin{aligned}
 \text{A)} \quad & x^T - (a+1)x + a \geq 0 \rightarrow \begin{matrix} x_1 \geq 1 \\ x_2 \geq a \end{matrix} \rightarrow a \geq \mu \rightarrow p_1 = \mu \quad (r) \\
 & x^T - (\mu a + 1)x + b \geq 0 \geq x^T - 1 \cdot x + b \geq 0 \rightarrow \begin{cases} a \geq \Sigma \\ \beta \geq \gamma \end{cases} \\
 & \rightarrow b \geq \mu \rightarrow p_1 \geq b \geq \mu \rightarrow p_1 - p_1 \geq \mu - \mu \quad (r) \checkmark
 \end{aligned}$$

$$\begin{aligned}
 \text{a)} \quad & \Delta \geq 0 \rightarrow b^T - \Sigma a \geq 0 \rightarrow \delta + m^T \geq 0 \text{ معادله} \quad (r) \\
 & a^T + \beta^T \geq \gamma^T - \mu \geq 1 + \mu m^T + \mu \geq \mu + \mu m^T \rightarrow (\alpha^T + \beta^T) \text{ کمتر از مقدار} \\
 & \text{زیرا } m=0 \text{ است} \\
 & \rightarrow \min(\alpha^T + \beta^T) \geq \mu + 0 \quad (r) \checkmark
 \end{aligned}$$

$$\begin{aligned}
 \text{10)} \quad & A(x, y) \rightarrow x_5 \geq -1 \rightarrow y_5 \geq 1 \rightarrow \text{ext}(-1, 1) \\
 & B(-\delta, y) \rightarrow y \geq a x^T + \mu x + a + 1 \quad (r) \\
 & \rightarrow \alpha^T + \beta^T = \mu \left(\frac{a+1}{a} \right) = -1 \rightarrow \mu a + \mu - a \rightarrow a \geq \frac{\mu}{-\mu} \\
 & \rightarrow y \geq -\frac{\mu}{\mu} x^T - \frac{\mu}{\mu} x + \frac{1}{\mu} \xrightarrow{x_1=0} \left(y \geq \frac{1}{\mu} \right) \checkmark
 \end{aligned}$$