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$$m^2 - am + F = 0 \quad \alpha + \mu\alpha = F\alpha = \frac{a}{\mu} \quad \alpha \times \mu\alpha = \mu\alpha^2 = \frac{F}{\mu} \Rightarrow \alpha^2 = \frac{F}{\mu} \quad 1$$

$$F \times \frac{F}{\mu} = \frac{a}{\mu} \Rightarrow \alpha = 1$$

$$1 - (-1) = 14$$

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$$F \times -\frac{F}{\mu} = \frac{a}{\mu} \Rightarrow \alpha = -1$$

$$mn^2 + \mu n + F = 0$$

$$\frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} = \Delta \Rightarrow \sqrt{\alpha} + \sqrt{\beta} = \frac{\Delta}{\frac{1}{\sqrt{\alpha\beta}}}$$

$$S = \frac{m+1F}{\mu\gamma} \quad \rho = \frac{1}{\mu\gamma}$$

$$\alpha + \beta + \sqrt{\alpha\beta} = \frac{\Delta}{\mu\gamma} \rightarrow \frac{m+1F}{\mu\gamma} + \frac{F}{\gamma} = \frac{\Delta}{\mu\gamma} \rightarrow m+1F+1F = \Delta \rightarrow m = -1$$

$$\frac{F}{m} = -F$$

$$Fm^2 + Km^2 - 9m - F = 0$$

$$S = 1$$

$$\rho = -F \Rightarrow \beta = -\frac{F}{\alpha}$$

$$\left. \begin{aligned} \alpha + \frac{F}{\alpha} &= 1 \Rightarrow \frac{\alpha^2 - F}{\alpha} = 1 \Rightarrow \alpha^2 - \alpha - F = 0 \\ \alpha &= F, \beta = -1 \end{aligned} \right\}$$

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$$m = F \rightarrow F^2 + FK - 11 - F = 0 \Rightarrow FK = -1F \Rightarrow K = -F$$

$$S = -F \quad \rho = a \quad \alpha < \beta < 0$$

$$\mu\alpha^2 + F\beta^2 = 12\sqrt{F} + 11\Delta \rightarrow \frac{\Delta}{F} (\underbrace{\alpha^2 + \beta^2}_{(\alpha+\beta)^2 - 2\alpha\beta}) + \frac{1}{F} (\alpha^2 - \beta^2)$$

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$$(\alpha^2 - \beta^2) = (\alpha - \beta)(\alpha + \beta) = 4\sqrt{\Delta}$$

$$12\sqrt{F} + 11\Delta = \frac{\Delta}{F} (F - 2\alpha\beta) - 4\sqrt{\Delta} \Rightarrow 12\sqrt{F} = 4\sqrt{\Delta} \Rightarrow \sqrt{\Delta} = -F\sqrt{F}$$

$$\frac{V_0}{\omega} = r_4 - r_{\alpha\beta} \rightarrow r_4 - r_4 = -r_{\alpha\beta} \Rightarrow \alpha\beta = 1 \quad \frac{c}{a} = 1 = \frac{a}{1} \Rightarrow a=1$$

$$u^r - V u^t - \omega = 0 \xrightarrow{u^r=t} t^r - V t - \omega = 0 \quad t = \frac{V \pm \sqrt{V^2 + 4\omega}}{2} \rightarrow \Delta$$

$$t = \frac{V + \sqrt{49}}{2} \Rightarrow u^r = \frac{V + \sqrt{49}}{2} \Rightarrow u = \pm \frac{\sqrt{V + \sqrt{49}}}{2} = s \quad s=0$$

$$r p^r - \underbrace{r s p^r}_{=0} + \underbrace{r s}_{=0} = r p^r = r_x \left(\frac{-V - \sqrt{49}}{2} \right)^r = \frac{49 + 49 + 14\sqrt{49}}{2} = \frac{118 + 14\sqrt{49}}{2} =$$

$$\Delta 9 + V\sqrt{49}$$

$$s = \frac{a}{r} \quad p = \frac{b}{r} \quad r a u^r + a u - 4 = 0 \quad \alpha = \frac{1}{r}, \beta = \frac{1}{r} \quad \text{4}$$

$$s' = \frac{-a}{ra} = -\frac{1}{r} \quad p' = \frac{-b}{ra} = -\frac{r}{a} \quad s' = \alpha + \beta + 1 = s - \frac{1}{r} = \frac{a}{r} + 1 = s$$

$$a = -r \quad p' = \left(\alpha + \frac{1}{r} \right) \left(\beta + \frac{1}{r} \right) = \alpha\beta + \frac{1}{r}(\alpha + \beta) + \frac{1}{r^2} = \frac{b}{r} - \frac{r}{r} + \frac{1}{r^2} =$$

$$\frac{-r}{-r} = 1 \Rightarrow \frac{b}{r} = \frac{r}{r} \Rightarrow b = r \quad \left[\frac{ab}{r} \right] = \left[\frac{-9}{r} \right] = -r$$

$$u^r - (a+1)u + a = 0 \rightarrow a, a+1 \quad \text{1 - (يا من سوال 7 و 8 جا يا نوشته ام)}$$

$$\left. \begin{aligned} s &= a+1 = r a + r \\ p &= a = r a + r a \end{aligned} \right\} \alpha^r + r \alpha + 1 = r \alpha + r \Rightarrow \alpha^r = 1 \Rightarrow \alpha = \pm 1 \quad \text{مقدور و صغی}$$

$$a^r - (r+1)a + b = 0 \rightarrow \beta, \beta+r \quad S=10=r\beta+r \Rightarrow \beta=r$$

$$b = r \times r = r^2 \Rightarrow b-a = r^2 - r = r$$

$$a n^r - b n - b = 0 \Rightarrow a n^r = \frac{a n + b}{r} \Rightarrow \beta r = \frac{a \beta + b}{r}$$

$$r_0 \times \frac{a \beta + b}{a} + r_0 \times \frac{a \alpha + b}{c} - r_0 \beta = 1V \quad \text{xx} \rightarrow r_0 \alpha \beta + r_0 b + r_0 a \alpha + r_0 b -$$

$$r_0 \beta \alpha = 1V \alpha \Rightarrow r_0 a + r_0 b = 1V \alpha \Rightarrow r_0 b = -r_0 a \Rightarrow b = -\frac{r}{r_0} a$$

$$\alpha - \beta = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{a^2 + r_0 a \times \frac{-r}{r_0} a}}{|a|} = \frac{\sqrt{\frac{V}{r_0} a^2}}{|a|} = \sqrt{0/V}$$

$$\begin{aligned} n^r + n - 1 - n^r &= 0 & S &= -1 \\ p &= -1 - n^r \end{aligned} \left. \vphantom{\begin{aligned} n^r + n - 1 - n^r &= 0 \\ p &= -1 - n^r \end{aligned}} \right\} \rightarrow \alpha^r + \beta^r = (\alpha + \beta)^r - r \alpha \beta =$$

$$1 - r(-1 - n^r) = r n^r + r \xrightarrow{n^r \geq 0} \min_n = r$$

$$n^r = \frac{r + (-2)}{r} = -1 \rightarrow S(-1, 1) \quad y = a(n+1)^r + 1$$

$$a(n+1)^r + 1 = 0 \Rightarrow a n^r + r a n + a + 1 = 0 \Rightarrow S = -r$$

$$p = 1 + \frac{1}{a}$$

$$\alpha^r + \beta^r = (\alpha + \beta)^r - r\alpha\beta = r - r\left(1 + \frac{1}{\alpha}\right) = r - \frac{r}{\alpha} = 0 \Rightarrow \alpha = -\frac{r}{r}$$

$$y = a(0+1)^r + 1 = a + 1 = 1 - \frac{r}{r} = \frac{1}{r}$$

$$rx^r - ax + b = 0 \quad \begin{cases} s = \frac{a}{r} \\ p = \frac{b}{r} \end{cases}$$

$$rx^r + ax - 4 \quad \begin{cases} s = \frac{-1}{r} \rightarrow \alpha + \beta = \frac{1}{r} = \frac{a}{r} \rightarrow a = 1 \\ p = -r \rightarrow b = -4 \end{cases}$$

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$$\left[\frac{ab}{r} \right] = -r$$

$$\alpha = 1 - \beta \quad r \cdot \beta^r + r \cdot (1 - \beta)^r - r \cdot \beta = 0 \Rightarrow r \cdot \beta \underbrace{(\beta - 1)}_{-\alpha} = -1 \rightarrow \alpha\beta = \frac{1}{r} = \frac{-b}{a} \quad (V)$$

$$\Rightarrow a = -r \cdot b$$

$$ax^r - ax - b = 0 \rightarrow -r \cdot bx^r + r \cdot bx - b = 0 \quad |\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{r}{\sqrt{\Delta}}$$