

$$2\alpha^2 - am + f = 0$$

$$2\alpha^2 = \frac{f}{a} \rightarrow \alpha = \pm \sqrt{\frac{f}{2a}}$$

$$S = \alpha + 2\alpha = 3\alpha = \frac{a}{3}$$

$$f \times \frac{2}{3} = \frac{a}{3} \Rightarrow a = 1$$

$$f \times \frac{2}{3} = \frac{a}{3} \Rightarrow a = -1$$

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

$$24\alpha^2 - (m+12)\alpha + 1 = 0 \quad m\alpha^2 + 3m + 2 = 0 \quad \text{مجموع جذر معکوس ریشه ها}$$

$$m\alpha^2 + 3m + 2 = 0$$

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

$$\alpha + \beta + 2\sqrt{\alpha\beta} = \frac{2a}{34} \rightarrow \frac{m+12}{34} + \frac{2}{4} = \frac{2a}{34} \Rightarrow m+12+12=2a \Rightarrow m=-1$$

$$\frac{2}{m} = \frac{4}{-1} = -4 \quad p'$$

$$\alpha + \beta = 1 \rightarrow \alpha + \frac{2}{\alpha} = 1 \rightarrow \alpha^2 - \alpha - 2 = 0$$

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

$$2r + 4k - 11 - 2 = 0$$

$$\begin{matrix} n=2 \\ k=-3 \end{matrix}$$

$$\alpha + \beta = -4 \quad \alpha\beta = a \quad \text{مجموع و حاصل ضرب ریشه ها}$$

$$\alpha < \beta < 0 \rightarrow 2\alpha^2 + 2\beta^2 = 12\sqrt{2} + 10 \rightarrow \frac{2}{\sqrt{2}}(\alpha^2 + \beta^2) + \frac{1}{\sqrt{2}}(\alpha^2 + \beta^2)$$

$$\rightarrow \alpha^2 + \beta^2 = 24 - 2\alpha\beta \quad \alpha^2 - \beta^2 = -4\sqrt{2}$$

$$12\sqrt{2} + 10 = \frac{2}{\sqrt{2}}(24 - 2\alpha\beta) + \frac{1}{\sqrt{2}}(-4\sqrt{2}) \rightarrow 24\sqrt{2} = -4\sqrt{2} \quad \sqrt{a} = -4\sqrt{2}$$

$$24 - 24 = -2\alpha\beta \rightarrow \alpha\beta = 1 \quad p = 1 = \frac{a}{1} \quad a = 1$$

$$t = \alpha^2 \quad 6r - v\epsilon + a = 0 \quad \text{مجموع و حاصل ضرب ریشه ها}$$

$$\epsilon > 0 \quad \frac{v + \sqrt{v^2 + 4a}}{2} \rightarrow \epsilon = \frac{v + \sqrt{v^2 + 4a}}{2} = \alpha^2 \quad \alpha = \pm \sqrt{\frac{v + \sqrt{v^2 + 4a}}{2}}$$

$$\rightarrow s = 0 \quad p = \frac{-v - \sqrt{v^2 + 4a}}{2} \rightarrow 2p^2 - 3sp + 2s = 2p^2 = \frac{11 + 14\sqrt{49}}{2} = 59 + 7\sqrt{49}$$

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

$$|\alpha - \beta| = \frac{\sqrt{\Delta}}{|\alpha|} = \frac{r}{\sqrt{\omega}}$$

$$b - a = r_2 - r_1 = r_1$$

$$r_m r + r \xrightarrow{m^r \geq 0} \min = r$$

21. $A, B \rightarrow \text{IPS, PS} \rightarrow a = \frac{-\omega + \mu}{r} = -1 \rightarrow y = 1$

$$t = \sqrt{\frac{-1}{a}}$$

$$26 \quad r r, r = \omega \rightarrow \angle r = \frac{\pi}{r} \rightarrow \frac{-1}{a} = \frac{\pi}{r} \rightarrow a = \frac{-r}{\pi} \xrightarrow{x=0} y-1 = a$$

$y = \frac{1}{x}$ عرف انصبا

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