

$$S = \alpha + \beta \quad D = \alpha\beta \quad r_{\alpha^2} - \alpha\alpha\alpha = 0 \rightarrow S = \frac{a}{r} \Rightarrow \alpha + \beta = \frac{a}{r}$$

$$\alpha = r\beta \Rightarrow r\beta + \beta = \frac{a}{r} \Rightarrow \beta = \frac{a}{1r}$$

$$\alpha\beta = \frac{r}{r} \xrightarrow{\alpha = r\beta} r\beta^2 = \frac{r}{r} \Rightarrow \beta = \pm \frac{1}{r} \Rightarrow a = 1r/\beta$$

$$\beta = \frac{1}{r} \rightarrow a_1 = -1$$

$$\beta = -\frac{1}{r} \rightarrow a_r = 1$$

$$\boxed{a_r - a_1 = |1 - (-1)| = 2}$$

$$r_{4 \text{ at } - (m+1) \text{ at } 1} = 0 \rightarrow \begin{cases} S = \alpha + \beta = \frac{m+1}{r_4} \text{ (I)} \\ \rho = \alpha\beta = \frac{1}{r_4} \text{ (II)} \end{cases}$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = a \quad \text{r.c.l.s.} \quad \frac{1}{a} + \frac{1}{\beta} + r \sqrt{\frac{1}{\alpha\beta}} = 10$$

$$\rightarrow \frac{\frac{m+1}{r_4}}{\frac{1}{r_4}} + r \sqrt{r_4} = 10 \Rightarrow m+1 + r = 10 \Rightarrow m = -1$$

$$-9r + r m + r = 0 \Rightarrow -9r + r(-1) + r = 0 \Rightarrow -9r - r + r = 0 \Rightarrow -9r = 0 \Rightarrow r = 0$$

$$\rho = \alpha\beta = \frac{1}{r_4} = \frac{1}{-1} = -1$$

$\alpha\beta = -2$ $\alpha + \beta = 1$ $\frac{\alpha = -2}{\beta}$, $\frac{-2}{\beta} + \beta = 1 \rightarrow \beta^2 - \beta - 2 = 0$
 $\beta = 0 \vee (\beta^2 - 2) = 0$ $\beta = -1 \rightarrow \alpha = 2$ $\beta = 2, \alpha = -1$ $\left. \begin{array}{l} \beta = -1 \rightarrow \alpha = 2 \\ \beta = 2, \alpha = -1 \end{array} \right\} \rightarrow$ جواب های دیگری ندارد و به حاصل عدد صحیح است.

$\alpha = -1 \Rightarrow f(-1) + k(1)^2 + 9 - 2 = -4 + k + 9 - 2 = 0 \quad k = -3$ $k = -3$
 $\alpha = 2 \Rightarrow f(2) + k(4) = 11 - 2 = 9 + 4k = 0 \Rightarrow k = -3$

[illegible]

$\mu t - \sigma \sqrt{t} = 0 \Rightarrow \frac{\mu \sqrt{t}}{\sigma} = 1 \Rightarrow \mu = \frac{\sigma}{\sqrt{t}}$
 $\mu = \frac{\sigma}{\sqrt{t}} \Rightarrow \mu = \frac{1}{\sqrt{t}}$
 $\mu = \frac{1}{\sqrt{t}} \Rightarrow \mu = \frac{1}{\sqrt{1}} = 1$
 $\mu = 1$

$$r\alpha r - a\alpha + b = 0 \rightarrow \alpha, \beta \rightarrow S = \alpha + \beta = \frac{a}{r} \quad P = \frac{b}{r}$$

$$r\alpha r - a\alpha - 1 = 0 \rightarrow \alpha', \beta' \rightarrow S = \alpha' + \beta' = -\frac{b}{a} = -\frac{1}{ra} = -\frac{1}{r}$$

$$P = \alpha'\beta' = \frac{c}{a} = -\frac{q}{ra} = -\frac{r}{a} \quad \frac{a+1}{a} = -r \quad r$$

$$b \quad \alpha = \alpha' \cdot 10 \quad \beta = \beta' \cdot 10 \Rightarrow \alpha + \beta = \frac{a}{r} \Rightarrow \alpha' + 10 + \beta' + 10 = \alpha' + \beta' + 1 = \frac{a}{r}$$

$$-\frac{1}{r} + 1 = \frac{1}{r} = \frac{a}{r} \Rightarrow a = 1$$

$$\alpha\beta = (\alpha' + 10)(\beta' + 10) = \alpha'\beta' + 10(\alpha' + \beta') + 100 \rightarrow P = r \quad \frac{b}{r} = r \Rightarrow b = r$$

$$r\beta r - r\beta - r + r\beta r - r\beta = 14$$

$$r\beta r - r\beta = 14 \quad | \lambda - \mu | = \frac{|\Delta|}{|a|} = \frac{|\alpha - (-\beta a)|}{|a|} = \frac{r\alpha + \beta a}{|a|} = \frac{1}{r} \sqrt{1 + \frac{\beta b}{a}}$$

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