

$ent \left  \begin{matrix} -b \\ ra \\ -\Delta \\ fa \end{matrix} \right. \quad a > 0 \quad ent = \min \left  \begin{matrix} \frac{r}{f} \\ -1 \end{matrix} \right.$	الف
$a < 0 \quad ent = \max \left  \begin{matrix} \frac{r}{f} \\ -\frac{r}{\lambda} \end{matrix} \right.$	ب

$a > 0 \Rightarrow \min \left  \begin{matrix} r \\ -\lambda \end{matrix} \right.$	الف	$a < 0 \Rightarrow \max \left  \begin{matrix} r \\ \lambda \end{matrix} \right.$	ب																
<table border="1"> <tr><th>z</th><th>y</th></tr> <tr><td>r</td><td>-λ</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>f</td><td>-λ</td></tr> </table>	z	y	r	-λ	0	1	f	-λ		<table border="1"> <tr><th>z</th><th>y</th></tr> <tr><td>r</td><td>λ</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>f</td><td>1</td></tr> </table>	z	y	r	λ	0	1	f	1	
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$r\alpha^r + k\alpha^r - a\alpha - r = 0$ $r\beta^r + k\beta^r - a\beta - r = 0$ <hr/> $f(\alpha^r + \beta^r) + k(\alpha^r + \beta^r) - a(\alpha + \beta) - f = 0$ $r\alpha + \Delta k - a - f = 0 \quad \Delta k = -r\alpha + r\beta = -1\omega \rightarrow k = -r$	۲
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$\sqrt{\alpha} - \sqrt{\beta} = 1 \rightarrow (\sqrt{\alpha} - \sqrt{\beta})^2 = \alpha + \beta - 2\sqrt{\alpha\beta}$ $1 = 2m - 2\sqrt{m} \quad \sqrt{m} = m \rightarrow 2m^2 - 2m - 1 = 0$ $\Delta = 17 \left[ \begin{matrix} m = 1 \rightarrow m = 1\sqrt{} \\ m = -\frac{1}{2} \end{matrix} \right. \quad x$ $2m^2 - 2m - 1 = 0 \rightarrow \text{حل اول} = \frac{c}{a} = \frac{-1}{2}$	$\alpha + \beta = \frac{-b}{a} = 2m$ $\alpha\beta = \frac{c}{a} = m$	۴
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$y = 2m^2 - (m+r)n + m \xrightarrow{\text{مشتق}} n = 0 \quad y = m$ $1 = \frac{a}{r} = \frac{m}{r} \quad \frac{-b}{a} = \frac{m+r}{r}$ $س = \frac{mx}{r} = \frac{m^2 - 2m}{r} = \frac{r}{f} \Rightarrow f m^2 - 2m - r = 0$ $\left. \begin{matrix} m = r \rightarrow \frac{r}{r} \\ m = -1 \rightarrow -\frac{1}{r} \end{matrix} \right\} \text{مشتق}$ $\frac{\sqrt{\Delta}}{ a } = \frac{\sqrt{(m+r)^2 - f(r)(m)}}{r} = \frac{\sqrt{(m-r)^2}}{r} = \frac{m-r}{r}$	د
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پہلے  $a > 0$

$$\frac{-A}{F_a} = \frac{a - f a^r}{f a} = \frac{V}{\Lambda}$$

$$r^r - r^r a^r - r \Lambda a = 0$$

$$a = \frac{-r \pm \sqrt{r^2 + 4r \Lambda}}{2f} \quad \left[ \begin{array}{l} -r \text{ } \times \text{ } \checkmark \\ \checkmark \end{array} \right]$$

9

$$r^r - (a+1)r + a = 0 \quad \left\{ \begin{array}{l} rA+1 \\ rA+r \end{array} \right. \quad \left. \begin{array}{l} \frac{-b}{a} \rightarrow fA+f = a+1 \Rightarrow a = fA+r \\ \frac{c}{a} \rightarrow fA^r + \Lambda A + r = a \end{array} \right\} \Rightarrow a = r$$

$$r^r - (ra+1)r + b = 0 \quad \left\{ \begin{array}{l} rB \\ rB+r \end{array} \right. \quad \left. \begin{array}{l} \frac{-b}{a} \rightarrow fB+r = ra+1 \rightarrow B = r \\ \frac{c}{a} \rightarrow fB^r + rB = b \rightarrow b = rf \end{array} \right.$$

$$b - a = rf - r = r(f-1)$$

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$$e_n = \left| \frac{1}{r} \right| \quad \left| \frac{a^r + na}{-fa} = \frac{a+1}{-f} \right.$$

$$r(b(\frac{1}{f}) - b(\frac{1}{f}) - 1) = -1$$

$$\frac{a+1}{-f} = -1 \rightarrow a+1 = f \quad \underline{a = -f}$$

$$e_{n+1} \left| \frac{b}{fa} = \frac{1}{f} \right. \quad \left| \frac{b+nb}{-fb} = \frac{b+1}{-f} \right.$$

$$-a \left( \frac{1}{fs} \right) + a \left( \frac{1}{f} \right) + r = \frac{1}{f} - 1 + r = \frac{a}{f} b$$

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$$y = -a r^r + f n + 1 \Rightarrow \text{اسی صورت میں} \quad \left[ \begin{array}{l} m = \frac{-b}{r a} \Rightarrow \frac{f}{r} \quad \beta > 1 \\ y = \frac{1 \Lambda}{1} = \frac{a}{a} \end{array} \right.$$

اسی صورت میں

$$\alpha + \beta = \frac{-f}{ra} \xrightarrow{a = -\frac{1}{a}} \beta = \frac{f}{a} + \frac{1}{a} = 1$$

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$$\alpha \beta = \frac{\beta}{r a \alpha} \xrightarrow{\text{اسی صورت میں}} \beta (r a \alpha^r - 1) = 0 \rightarrow r a \alpha^r - 1 = 0 \rightarrow \alpha = \pm \frac{1}{a} \quad \alpha < \beta \quad \alpha = -\frac{1}{a}$$

$$\frac{a+b}{c} = a^r + b^r - 1 \Rightarrow s = a^r + b^r - 1 \quad (a+b)^r - r a b \Rightarrow s = s^r - r p - 1 \Rightarrow r p = s^r - s - 1$$

$$\Rightarrow p \text{ اس صورت میں} \rightarrow r(s-1) = s^r - s - 1$$

$$a b = a + b - 1 \Rightarrow p = a + b - 1 \Rightarrow p = s - 1$$

$$r s - r = s^r - s - 1 \Rightarrow s^r - r s - 1 = 0 \quad \Delta = f a \quad \left[ \begin{array}{l} s = a \checkmark \\ s = -r \text{ } \times \end{array} \right.$$

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