

$$\frac{-\Delta}{4a} = \frac{-V}{4} \lambda$$

$$-q + fa^r = \frac{V}{4} \lambda^r$$

$$\lambda a^r - 1\lambda = V\lambda$$

$$\lambda a^r - V\lambda - 1\lambda = 0$$

$$-(q - f(a)(a)) \frac{V}{4a}$$

$\rho < 0$
بیشتر از صفر است

$a > 0$
مثبت است

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$$x^r - (a+1)x + a = 0$$

$$1 - a - 1 + a = 0$$

$$x_1 = 1$$

$$\frac{c}{a} = x_1^r = a \Rightarrow x^r \rightarrow x^r - (x^r + 1)x + a = 0$$

$$x^r - 1 - a + b = 0 \quad y = f$$

$$s = 1, \quad y = 4$$

$$q \times f - \frac{V}{4} = 1$$

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$$y = -a x_1^r + a x + r$$

$$y_{x_1} = r b (x_1^r)^{r-1} - b (x_1^r) - 1 = 0$$

$$\frac{a}{r a} = \frac{1}{r} \quad y = a \left(\frac{1}{r} \right)^r + a \left(\frac{1}{r} \right) + r = \frac{a}{r^r} + r$$

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

$$x_1 = -\frac{b}{r b} = \frac{1}{r}$$

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

$$b - a = (-a) - (-1/r) = 4$$

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$$\alpha + \beta = \frac{f}{r a \alpha} \rightarrow \alpha (\alpha + \beta) = -\frac{f}{r a} \Rightarrow \alpha^r + \alpha \beta = -\frac{f}{r a}$$

$$\alpha \beta = \frac{\beta}{r a \alpha} = \frac{\beta}{a}$$

$$\textcircled{1} \alpha^r + \alpha \beta = -\frac{f}{r a} \rightarrow \left(\frac{1}{a} \right)^r + \frac{\beta}{a} = -\frac{f}{r a}$$

$$\textcircled{2} \alpha^r + \alpha \beta = -\frac{f}{r a} \rightarrow \left(-\frac{1}{a} \right)^r + \left(\frac{\beta}{a} \right) = -\frac{f}{r a}$$

$$x_1 = \frac{b}{r a} = \frac{r}{a}$$

$$y_0 = -a \left(\frac{r}{a} \right)^r + r \left(\frac{r}{a} \right) + 1 \Rightarrow y_0 = \frac{a}{r}$$

$$\alpha \beta = \frac{\beta}{r a \alpha} = \beta = \alpha - \frac{1}{r a}$$

$$r a \alpha^r - 1 \rightarrow a = \frac{1}{r a}$$

$$\frac{r a}{r a} = \beta = -1, \alpha = \frac{1}{a}$$

$$x_1 = \frac{b}{r a} = \frac{r}{a} \Rightarrow \beta = 1, \alpha = -\frac{1}{r a}$$

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$$y = \left(\frac{r}{a}, \frac{a}{r} \right)$$

$$a + b = -\frac{-(a^r + b^r - 1/r)}{1} \rightarrow a + b = a^r + b^r - 1/r \quad \textcircled{1} \quad a \times b \neq a + b - 1 \Rightarrow a \times b = a + b - 1$$

$$\textcircled{2} a + b = ab + 1 \quad a^r + b^r = (a+b)^r - rab \quad \textcircled{3} \quad a + b = [(a+b)^r - rab] - 1/r$$

$$[ab + 1] = [(ab + 1)^r - rab] - 1/r \quad \textcircled{4} \quad s = \rho + 1 \rightarrow \rho = s - 1 \quad \textcircled{5} \quad s = (a^r + b^r) - 1/r$$

$$s = (s^r - r\rho) - 1/r \xrightarrow{\rho = s-1} s(s^r - r(s-1)) - 1/r \Rightarrow s = s^r - r s - 1 = 0 \Rightarrow a^r + b^r = s^r - r s$$

$$(s - a)(s + r) = 0$$

$$s = a \vee s = -r \rightarrow s = a + b \vee r \Rightarrow s = -r \quad \textcircled{6}$$

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