

$$x^2 + t \Rightarrow t^2 - vt - s = 0 \quad -\omega$$

$$s = t_1 + t_2, \quad t_1 t_2 = -s$$

$$\frac{v \pm \sqrt{49}}{2} = t_1, t_2 \rightarrow \frac{v - \sqrt{49}}{2} \Rightarrow t_2 = \frac{v + \sqrt{49}}{2}$$

$$x_1 = \frac{v + \sqrt{49}}{2}, \quad x_2 = -\frac{v + \sqrt{49}}{2} \Rightarrow p_2 = \left(\frac{v + \sqrt{49}}{2} \right), \quad s = 0$$

$$\frac{\sqrt{v + \sqrt{49}}}{2} - \sqrt{\frac{v + \sqrt{49}}{2}} \Rightarrow r p^2 - v p + s = 0 \Rightarrow \sqrt{49} = 7 \Rightarrow p = 7$$

$$r x^2 - a x + b = 0 \Rightarrow x_1 + x_2 = \frac{a}{r} \quad x_1 + x_2 = x'_1 + x'_2 + 1$$

$$r a x + d x - 4 = 0 \Rightarrow x'_1 + x'_2 = -\frac{1}{r} \quad \frac{a}{r} = \frac{1}{r} \Rightarrow a = 1$$

$$r a x + d x - 4 = 0 \Rightarrow \frac{-1 \pm \sqrt{1}}{r} = -\frac{1}{r} \Rightarrow \frac{3}{r} = -1 \Rightarrow r = -3$$

$$-1 \times r = -3 \Rightarrow b = -4$$

$$\left[\frac{1x - 4}{r} \right] = \left[-\frac{3}{r} \right] = -1$$

$$\alpha + \beta = s = \frac{a}{r} \Rightarrow \alpha = 1 - \beta \Rightarrow \left(\alpha^2 + 1 + \beta^2 - 2\beta \right) = 7$$

$$1 + 1 + \beta^2 - 2\beta = 7 \Rightarrow \beta^2 - 2\beta - 5 = 0 \Rightarrow \beta = 1 \pm \sqrt{6}$$

$$\frac{r \cdot \beta^2 + 2\beta + 1}{r} = 0 \Rightarrow \beta^2 - 2\beta - 5 = 0 \Rightarrow \beta = 1 \pm \sqrt{6}$$

$$1 - \beta = -\rho \Rightarrow \rho = \beta - 1 = \sqrt{6}$$

$$t_2 = \frac{10 \pm \sqrt{40}}{2}$$

$$1 \pm \frac{\sqrt{40}}{10}$$

$$(r_k+1)(r_k+c) \leq r_k + r_k + r_k = 3r_k$$

$$r_k + r_k = 2r_k$$

(2)

$$r_k(r_k+1) \leq 0 \quad \text{and} \quad 0 \leq r_k + r_k$$

$$r_k \leq 0 \quad \text{and} \quad r_k \geq 0$$

$$r_k = 0$$

$$r_k = -\frac{1}{r_k}$$

$$r_k = 0$$

$$r_k = 0$$

$$(r_m)(r_m+1) \leq b$$

$$r_m + 1 \leq b \Rightarrow m \leq r \Rightarrow r \leq b$$

$$b - a \leq r \leq b$$

$$\alpha + \beta \leq 1, \quad \alpha + \beta \leq 1 - m^r$$

(3) -1

$$\alpha + \beta \leq (1 + \beta)^r - r\alpha\beta = 1 - r(-1 - m^r) \leq 1 + r + m^r$$

$$\checkmark (4) \leftarrow m < 0 \quad \text{مقدار کمتر از صفر}$$

$$a r_k + b r_k + c \leq 0$$

-10

$$r_k a + r_k b + c \leq 0$$

(5)

$$14a - 1b \geq 0$$

$$r_k a - b \leq 0$$

$$r_k a \leq b$$

$$b^r \leq r_k a^r$$

$$b^r - r_k a^r \leq \frac{r_k a^r - r_k a^r}{-r_k a^r}$$

$$c \leq a + 1$$

$$r_k a^r - r_k a^r \leq -r_k a^r$$

$$a - c \leq -1$$

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$$-\alpha\beta^r + r\alpha\beta + \alpha + 1 = 0$$

$$\alpha\alpha^r + r\alpha + \alpha + 1 = 0$$

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

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

$$r\alpha + r = \alpha \Rightarrow r\alpha^2 - r\alpha = \frac{1}{r} \Rightarrow C_2 = \frac{1}{r}$$

$$C_2 = \frac{1}{r}$$

$$S = -4 \quad P = \alpha$$

$$\alpha > \beta = \frac{-4 \pm \sqrt{16 - 4\alpha}}{r} \quad \alpha < \beta \rightarrow \alpha = -r - \sqrt{9 - \alpha}$$

$$\alpha^r + r(\alpha^r + \beta^r) = \alpha^r + r(S^r - rP)$$

$$(-r - \sqrt{9 - \alpha})^r + r(r^r - r\alpha) = r^r + r\alpha \rightarrow \alpha = 1$$

$$S = \alpha + \beta = 1 \rightarrow \alpha = 1 - \beta$$

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$$f \cdot \beta^r + \gamma \cdot (1 - \beta)^r - \gamma \cdot \beta = 1 \gamma \rightarrow \gamma \cdot \beta^r - \gamma \cdot \beta + 1 = 0$$

$$\gamma \cdot \beta (\beta \underset{-\alpha}{-} 1) = -1 \rightarrow -\gamma \cdot \alpha \beta = -1 \rightarrow \alpha \beta = \frac{1}{\gamma} = -\frac{b}{a} \rightarrow a = -\gamma b$$

$$-\gamma \cdot \beta \cdot \alpha^r + \gamma \cdot \beta \cdot \alpha - \beta = 0 \rightarrow |\alpha - \beta| = \frac{\sqrt{a}}{|a|} = \boxed{\frac{\gamma}{\sqrt{a}}}$$