

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۹۱... کلاس:
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$$B = \sqrt{2} \rightarrow \sqrt{2} \alpha^2 = \frac{C}{\alpha} = \frac{r}{\sqrt{2}} \rightarrow \alpha = \pm \frac{r}{\sqrt{2}}$$

$$\left. \begin{aligned} \alpha = \frac{r}{\sqrt{2}} \rightarrow B = r \rightarrow \alpha + B = \frac{1}{\sqrt{2}} = -\frac{b}{a} = \frac{a}{r} \rightarrow \alpha_1 = 1 \\ \alpha = -\frac{r}{\sqrt{2}} \rightarrow B = -r \rightarrow \alpha + B = -\frac{1}{\sqrt{2}} = \frac{a}{r} \rightarrow \alpha_2 = -1 \end{aligned} \right\} \alpha_1 - \alpha_2 = 14$$

$$\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} = 1 \rightarrow \frac{\alpha + B}{\alpha B} + \frac{1}{\sqrt{2}} = 1 \xrightarrow{\alpha B = 1/\sqrt{2}} \sqrt{2}(\alpha + B) + 1 = 1 \rightarrow \alpha + B = 0$$

$$\rightarrow \alpha + B = \frac{1}{\sqrt{2}} = \frac{m+1}{m-1} \rightarrow m = -1$$

$$m = -1 \rightarrow m\alpha^2 + \sqrt{2}\alpha + 1 = -\alpha^2 + \sqrt{2}\alpha + 1 = 0 \rightarrow \alpha^2 - \frac{C}{\alpha} = \frac{r}{-1} = -r$$

$$\alpha + B = 1 \rightarrow \alpha^2 + B^2 + 2\alpha B = 1 \xrightarrow{\alpha B = 1} \alpha^2 + B^2 = 1 \rightarrow \alpha - B = \sqrt{2}$$

$$\begin{cases} \alpha + B = 1 \\ \alpha - B = \sqrt{2} \end{cases} \Rightarrow \alpha = \frac{1+\sqrt{2}}{2}, B = \frac{1-\sqrt{2}}{2} \rightarrow -k + k + 9 - 1 = 0 \rightarrow k = -3$$

$$\sqrt{2}\alpha^2 + 2B^2 = 12\sqrt{2} + 10 \rightarrow 2, 10(\alpha^2 + B^2) + 0, 10(\alpha^2 - B^2) = 12\sqrt{2} + 10$$

$$\frac{1}{\sqrt{2}}(s^2 - 4p) + \frac{1}{\sqrt{2}}(s)(\sqrt{s^2 - 4p}) = 12\sqrt{2} + 10 \xrightarrow{s = -4}$$

$$\frac{1}{\sqrt{2}}(16 - 4a) + \frac{1}{\sqrt{2}}(4)(\sqrt{16 - 4a}) = 12\sqrt{2} + 10 \rightarrow 90 - 5a + 4\sqrt{9 - a} = 12\sqrt{2} + 10$$

$$12\sqrt{2} + 10 \rightarrow 90 - 5a + 4\sqrt{9 - a} = 4\sqrt{1} + 10 \rightarrow a = 1$$

$$x^2 = t \rightarrow t^2 - vt - 2 = 0 \rightarrow t = \alpha \rightarrow x = \pm \sqrt{2}, t = B \rightarrow x = \pm \sqrt{2}$$

$$S = 0 \rightarrow 2p^2 - 3sp + 2s = 2p^2 \left\{ \begin{aligned} t_1 &= \frac{v + \sqrt{49}}{2} \sqrt{1 + \frac{\sqrt{49}}{2}} \\ t_2 &= \frac{v - \sqrt{49}}{2} \sqrt{1 - \frac{\sqrt{49}}{2}} \end{aligned} \right.$$

$$\rightarrow x^2 = \frac{v + \sqrt{49}}{2} \rightarrow x = \pm \sqrt{\frac{v + \sqrt{49}}{2}} \rightarrow 2p^2 = \frac{118 + 14\sqrt{49}}{2} = 59 + 7\sqrt{49}$$

$$rax^r + ax - 4 = 0 \rightarrow \alpha + \beta = -\frac{b}{a} = -\frac{1}{r}$$

$$rx^r - ax + b = 0 \rightarrow \alpha' + \beta' = \frac{1}{r} \rightarrow a = 1 \rightarrow \alpha\beta = -r$$

$$(\alpha + \frac{1}{r})(\beta + \frac{1}{r}) = \frac{\alpha + \beta}{r} + \alpha\beta + \frac{1}{r} = \alpha'\beta' = \frac{b}{r} \rightarrow \frac{b}{r} = -r \rightarrow b = -4$$

$$[\frac{ab}{r}] = [-\frac{4}{r}] = -r$$

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$$r_0\beta' + r_0\alpha' - r_0\beta = 1V \Rightarrow (r_0\beta' + r_0\alpha') + r_0\beta' - r_0\beta = 1V \Rightarrow r_0(\beta' + \alpha') + r_0(\beta' - \beta) = 1V$$

$$ax^r - ax - b = 0 \xrightarrow{x=\beta} a\beta^r - a\beta - b = 0 \Rightarrow a(\beta^r - \beta) = b \Rightarrow \beta^r - \beta = \frac{b}{a}$$

$$\alpha' + \beta' = S^r - rP = (1)^r - r(-\frac{b}{a}) = 1 + \frac{rb}{a} \mid r_0(1 + \frac{rb}{a}) + r_0(\frac{b}{a}) = 1V \rightarrow \frac{b}{a} = -\frac{1}{r_0}$$

$$|\alpha - \beta| = \sqrt{S^r - rP} = \sqrt{1^r - r(-\frac{b}{a})} = \sqrt{1 - r(-(-\frac{1}{r}))}$$

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

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$$\alpha + r - \alpha = \frac{\sqrt{\Delta}}{|a|} = |\alpha - 1| = r \rightarrow \alpha = r + 1$$

ریشه ها: α و $\alpha + r$

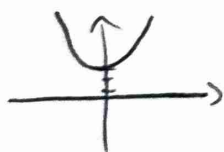
$$\underline{a=-1} \rightarrow x^r - 1 = 0 \rightarrow x = \pm 1 \rightarrow \cup \cup \cup \rightarrow \alpha = r$$

$$x^r - 1 \cdot x + b = 0 \rightarrow \beta' + r - \beta = \frac{\sqrt{\Delta}}{|a|} = r\sqrt{r_0 - b} = r \rightarrow b = r_0$$

$$\alpha\beta = r, \alpha'\beta' = r_0 \rightarrow r_0 - r = 1$$

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$$\alpha' + \beta' = S^r - rP = rm^r + r$$



$$y_{\min} = r$$

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$$y = ax^r + bx + c \mid x_B + x_A = \alpha + \beta = -r \mid \frac{x_B + x_A}{r} = -\frac{b}{ra} = -1 \rightarrow a = b$$

$$y = ax^r + rax + c \xrightarrow{c=1} 1 = a - ra + c \rightarrow c - a = 1$$

$$S^r - rP = 0 \rightarrow r - rP = 0 \rightarrow P = -\frac{1}{r} \rightarrow \frac{c}{a} = -\frac{1}{r} \rightarrow -rc = a$$

$$\rightarrow rc = 1 \rightarrow c = \frac{1}{r}$$

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