

نام و نام خانوادگی: ..... پاسخنامه تشریحی تکلیف شماره ... کلاس: ...

$$\frac{F\alpha + \beta^r}{\omega\beta^r} = \frac{F\alpha}{\omega\beta^r} + \frac{\beta^r}{\omega}$$

$$\frac{F\alpha}{\omega\beta^r} \times \frac{\alpha^r}{\alpha^r} = \frac{F\alpha^r}{\omega\alpha^r\beta^r} = \frac{F(\alpha\alpha^r - \gamma\alpha)}{\omega\alpha^r} = \frac{\alpha\alpha^r - \gamma\alpha}{\omega} + \frac{\omega\beta^r - \gamma\beta}{\omega} = \frac{\alpha\alpha^r + \omega\beta^r - \gamma\alpha - \gamma\beta}{\omega}$$

$$\alpha^r - \alpha\alpha + \gamma = 0 \rightarrow \alpha^r = \alpha\alpha - \gamma \rightarrow \alpha^r = \alpha\alpha^r - \gamma\alpha \quad \omega(\alpha\alpha^r + \beta^r) - \gamma(\alpha + \beta) = \omega(\gamma - \gamma) = 19$$

$$\beta^r - \alpha\beta + \gamma = 0 \rightarrow \beta^r = \alpha\beta - \gamma \rightarrow \beta^r = \alpha\beta^r - \gamma\beta$$

$$\alpha^r - \alpha\alpha + \gamma = 0 \quad \alpha\beta = \frac{\gamma}{\omega} \rightarrow \alpha^r\beta^r = \gamma$$

$$\alpha + \beta = \omega \rightarrow \alpha^r + \beta^r + \gamma\alpha + \gamma\beta = \gamma\alpha + \gamma\beta \rightarrow \alpha^r + \beta^r = \gamma$$

$$\begin{cases} -1/a & y = \alpha x^r + bx + c \\ -r & -r = r/1/a\alpha - 1/b + c \\ 1/r & -r = 9a + r/b + c \end{cases} \rightarrow \begin{cases} r/1/a\alpha - 1/b + c = 9a + r/b + c \\ -9/1/a\alpha = r/b + c \end{cases}$$

$$\frac{-9/1/a\alpha}{r/1/a} = \frac{r/b + c}{r/1/a} \rightarrow -1/a\alpha = b$$

$$\text{مجموع ریشه ها} = \frac{-b}{a} = \frac{-1/a\alpha}{a} = 11/a$$

$$\text{اختلاف} = \frac{\sqrt{\Delta}}{1a} = \frac{\sqrt{F\alpha^r - \gamma_0}}{1} = \frac{F}{r} \alpha^r \rightarrow \frac{F\alpha^r - \gamma_0}{1} = \frac{14\alpha^r}{9} \rightarrow 9(F\alpha^r - \gamma_0) = 14\alpha^r$$

$$9F\alpha^r - 180 = 14\alpha^r$$

$$90\alpha^r = 180 \rightarrow \alpha^r = 9$$

$$\left[ \frac{\alpha^r}{r} \right] = \left[ \frac{9}{r} \right] = [F, \omega] = F$$

$$\alpha_5 = \frac{-\alpha + r}{r} = \frac{-r}{r} = -1 \quad y = \alpha(x+1)^r + 1 \rightarrow y = \alpha x^r + r\alpha x + \alpha + 1 \rightarrow 5 = \frac{-b}{a} = \frac{-r\alpha}{a} = r$$

$$\alpha^r + \beta^r = s^r - r\rho \rightarrow r - r\left(\frac{\alpha+1}{a}\right) = r - \frac{r\alpha+1}{a} = \frac{ra - r\alpha - 1}{a} = \frac{r\alpha - r}{a} = \omega$$

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

$$y = \frac{-r}{r}(x+1)^r + 1 \xrightarrow{x=0} -\frac{r}{r} \times 1 + 1 = -\frac{r}{r} + \frac{r}{r} = \left[ \frac{1}{r} \right]$$

$$-\alpha^r + \alpha\alpha + m = 0$$

$$\frac{-\alpha_1 \alpha_2}{-1+1} \rightarrow \alpha_1, \alpha_2 \leq \frac{1}{r}$$

$$-\frac{11}{r} + \frac{r\alpha}{r} + m\gamma_0$$

$$\frac{-11 + 90 + r\alpha\gamma_0}{r} \rightarrow 9 + r\alpha\gamma_0 \rightarrow r\alpha\gamma_0 < 9 \rightarrow m < -\frac{9}{r} = -r, \omega$$

$$\text{ریشه ها} \rightarrow \Delta \gamma_0 \rightarrow b^r - r\alpha\gamma_0 = r\alpha + r\alpha\gamma_0 \rightarrow r\alpha\gamma_0 - r\alpha \rightarrow m\gamma - \frac{r\alpha}{r} = -4, \omega$$

$$\frac{-4, \omega}{-r, \omega} = \frac{-4, -\alpha, -r}{\omega\gamma_0}$$



$$y = m x^p - 11x + 2m - 1$$

$$\frac{-\Delta}{F_a} = \frac{-(b^p - F_a c)}{F_a} = \frac{1FF - P_0 m^p + F_m}{-F_m} = \frac{P}{1} \rightarrow 1FF - P_0 m^p + F_m = -\Delta m \rightarrow P_0 m^p - 11m - 1FF = 0$$

$$y = P_0 x^p - 11x + 1F$$

$$x = \frac{b}{P_a} = \frac{1P}{4} = \boxed{P}$$

$$\begin{aligned} & \Delta m^p - P_m - 114 = 0 \\ & m^p - P_m - 110 = 0 \\ & (m-10)(m+12) = 0 \\ & \left\{ \begin{aligned} m = \frac{10}{2} = 5 \\ m = -\frac{12}{2} = -6 \end{aligned} \right. \end{aligned}$$

✓ چون دقة سطرین مقدار دارد و  $x$

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$$m^p (P_a + P_m + P_a - 1) = 0$$

$$S = a + b = \frac{-b}{a} = \frac{-P_a + 1}{1} = -P_a + 1$$

$$P = a \times b = \frac{c}{a} = \frac{P_a - 1}{1} = P_a - 1$$

$$a^p = a b$$

$$a^p = P_a - 1$$

$$a^p - P_a + 1 = 0$$

$$(a-1)^p = 0 \rightarrow a = 1$$

$$x^p = t \rightarrow t^p - 11t = 0 \rightarrow \Delta = b^p - F_a c = 121 - 11 = 110 \rightarrow \sqrt{110}$$

$$t = \frac{-b \pm \sqrt{\Delta}}{P_a} = \frac{11 \pm \sqrt{110}}{1} \rightarrow x = \pm \sqrt{\frac{11 \pm \sqrt{110}}{P}} \rightarrow \text{عوض } S = 0 \} \text{ عوض } = -\frac{11 \pm \sqrt{110}}{P} = P$$

$$P P^p - P_0 P + P_0 = P \times \left( -\frac{11 \pm \sqrt{110}}{P} \right)^p = P \times \frac{121 \pm 11\sqrt{110} + 11\sqrt{110}}{P^p} = \frac{111 \pm 11\sqrt{110}}{P} = \frac{11(1 \pm \sqrt{110})}{P}$$

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$$y = K x^p - F x - 4 \quad x = \frac{-b}{P_a} = \frac{-F}{P_K} = \frac{P}{K}$$

$$y = K \times \frac{P}{K} - F \times \frac{P}{K} - 4 = \frac{P}{K} - \frac{F \cdot P}{K} - 4 = \frac{P - F \cdot P - 4K}{K} = \frac{-F \cdot P - 4K}{K}$$

$$\left( \frac{P}{K}, -\frac{F \cdot P - 4K}{K} \right) \rightarrow y = -F x - 4$$

$$y = \frac{-F \cdot P - 4K}{K} = \frac{-F \cdot P}{K} - 4 \rightarrow \frac{F}{K} = \frac{P}{1} \rightarrow P_K = F \rightarrow K = P$$

$$y = -\frac{F \cdot P}{K} - 4 = -\frac{F \cdot P}{P} - 4 = -P - 4 = \boxed{-1}$$

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$$-m - x = -m x^p + m x + 1 \rightarrow m x^p - m x - 1 - m - x = 0 \rightarrow m x^p - (m+1)x - m - 1 = 0$$

$$\Delta = b^p - F_a c = \left( -(m+1) \right)^p - F_m m x (-m-1) < 0$$

$$m^p + 11P_m + F_m^p + F_m = \Delta m^p + 4m + 1 < 0 \rightarrow$$

$$m^p + 4m + 1 < 0$$

$$(m+1)(m+1) < 0$$

$$m = -\frac{1}{2}, -\frac{1}{2} - \frac{1}{2} = -1$$

$$\Delta \left( m + \frac{1}{2} \right) (m+1)$$

$$(\Delta m + 1)(m+1) < 0$$

$$\begin{array}{c|c|c|c|c} & -1 & -\frac{1}{2} & -\frac{1}{2} & \\ \hline + & \phi & - & \phi & + \end{array}$$

مقدارها را در نظر بگیرید

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