

نام و نام خانوادگی آریه پور پاسخنامه تشریحی تکلیف شماره ۲۲ کلاس ۱۴۰۲

$$\alpha + \beta = \omega$$

$$\alpha\beta = 1 \quad \alpha = \frac{1}{\beta} \Rightarrow \frac{1}{\beta} + \beta = \omega \quad \beta^2 = \omega\beta - 1 \quad \beta(\beta^2) = \beta(\omega\beta - 1) :$$

$$\begin{aligned} 2\beta^3 - 1 &= \omega\beta - 1 \Rightarrow 2\beta^3 - \omega\beta = 0 \Rightarrow \beta(2\beta^2 - \omega) = 0 \Rightarrow \beta^2 = \frac{\omega}{2} \\ \beta^2 &= \frac{\omega}{2} \Rightarrow \beta = \pm \sqrt{\frac{\omega}{2}} \end{aligned}$$

$$2\alpha + \beta^2$$

$$\frac{2\alpha + \beta^2}{\omega\beta^2} = \frac{1}{\beta} + \beta = \omega \Rightarrow \frac{2\alpha + \beta^2}{\omega\beta^2} = \omega \Rightarrow 2\alpha + \beta^2 = \omega^2\beta^2$$

$$x = \frac{y}{x} \Rightarrow \frac{y}{x} = \frac{b}{x} \Rightarrow \frac{b}{x} = \frac{y}{x} \Rightarrow \frac{b}{x} = \frac{y}{x}$$

$$S = \frac{-b}{a} = 1 \times \frac{3}{1} = \frac{3}{1} = 3$$

$$\frac{\sqrt{a}}{x} = \sqrt{4k^2 - 2} \Rightarrow \frac{1}{x} = \sqrt{4k^2 - 2} \Rightarrow 4k^2 - 2 = \frac{1}{x^2} \Rightarrow 4k^2 = \frac{1}{x^2} + 2 \Rightarrow k^2 = \frac{1}{4x^2} + \frac{1}{2}$$

$$\left[\frac{k^2}{4} \right] \cdot \left[\frac{4}{x^2} \right] = 1$$

$$2s = \frac{r-\omega}{r} s - 1 \quad ns = \frac{\alpha+\beta}{r} s - 1 \Rightarrow \alpha + \beta = -r$$

$$\alpha^r + \beta^r = \omega \quad (\alpha + \beta)^r = \alpha^r + \beta^r + r\alpha^{r-1}\beta + \dots + r\alpha\beta^{r-1} + \beta^r \Rightarrow \alpha\beta = -\frac{1}{r}$$

$$y = a(n-\alpha)(n-\beta) \quad y = (n^2 - (\alpha+\beta)n + \alpha\beta) = a(n^2 + rn - \frac{1}{r})$$

$$y = 1 \quad ns = -1 \Rightarrow a(1 - r - \frac{1}{r}) = -\frac{1}{r} a = 1 \Rightarrow a = -\frac{r}{r}$$

$$y = -\frac{r}{r} (n^2 + rn - \frac{1}{r}) \Rightarrow y = 1 \Rightarrow \left(n^2 + rn - \frac{1}{r} \right) = -\frac{r}{r}$$

$$2r - \omega n - m = 0$$

$$f(m) = 2r - \omega n - m$$

$$f(7) > 0 \Rightarrow \frac{14}{r} - \frac{7\omega}{r} - m > 0$$

$$-\frac{7}{r} - m > 0 \Rightarrow m < -\frac{7}{r}$$

$$\Delta > 0 \quad 4\omega + 4m > 0 \quad m > -\frac{\omega}{1} \Rightarrow m > -4$$

$$m = -4, -\omega, -5, -3 \Rightarrow \boxed{4}$$

$m > 0$ $y_{m,n} = \frac{-\Delta}{\epsilon a} s = \frac{1\epsilon\epsilon - r_0 m^r + \epsilon m}{\epsilon m} = r \quad -1\epsilon\epsilon + r_0 m^r - \epsilon m = \Delta m$ $\frac{r_0 m^r - 1\epsilon m - 1\epsilon\epsilon}{r} = 0 \quad \omega m^r - 1\epsilon m - 1\epsilon\epsilon = 0 \quad (\omega m + 1\epsilon)(m - r) = 0$ $\frac{\omega m^r}{\omega} = \frac{1\epsilon}{\omega} \quad \frac{1\epsilon}{\omega} = \frac{1\epsilon}{\omega}$ $x_s = \frac{-b}{r a} = \frac{-1\epsilon}{r m} s \frac{y}{m^r} s r$	6
$\alpha, a, \beta \quad \frac{a}{\alpha} s \frac{\beta}{a} \quad \alpha^r = \alpha/\beta$ $\alpha + \beta = -r(a+1)$ $\alpha\beta s r a - 1 \rightarrow \alpha^r s r a - 1 \quad \alpha^r - r a + 1 s 0 \quad (a-1)^r s 0 \quad a s 1$	7
$x^r, y \quad y^r - v y - \omega = 0 \quad y s \frac{V \pm \sqrt{4q}}{r}$ $x s \pm \sqrt{y} \rightarrow S s 0$ $r p^r + r s p + r s \xrightarrow{S=0} = r p^r$ $r x \left(\frac{V + \sqrt{4q}}{r} \right)^r s \frac{(V + \sqrt{4q})^r}{r} s \frac{r q + 4q + 1\epsilon\sqrt{4q}}{r}$ $= \omega q + v \sqrt{4q}$	8
$x s s \frac{f}{r k} = \frac{r}{k} \quad y s s k x \left(\frac{r}{k} \right)^r - f \left(\frac{r}{k} \right) - y s \frac{f}{k} - \frac{\Lambda}{k} - y s - \frac{f}{k} - y$ $y s s - f x s - f \quad \frac{-f}{k} - y s - f \left(\frac{r}{k} \right) - f \quad \left(\frac{-f}{k} - y = \frac{-\Lambda}{k} - f \right) k$ $x s s = \frac{r}{r} = 1$ $y s s = -f x 1 - f s - \Lambda$ $-f - y k s - \Lambda - f k$ $f - r k = 0$ $k = -f$	9
$-m n^r + m n + 1 = -m - x$ $\frac{-m n^r}{a} + \frac{m n + 1}{a} s 0 \quad \Delta < 0 \quad (m n)^r - f(-m)(1+m) < 0$ $m^r + 1 + r m + f m^r + f m < 0$ $\omega m^r + f m + 1 < 0 \quad \rightarrow -1 \quad \frac{-c}{a} s \frac{-1}{\omega} \quad -1 < m < \frac{-1}{\omega}$ له ستر هج و درصحنه نیت	10