

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۰۱ کلاس نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۰۱ کلاس	۱ $x_3 = \frac{-b}{2a} \rightarrow \frac{-1}{2 \times 2} = -\frac{1}{4} \rightarrow a = 2$ $-\frac{1}{2}x^2 + x + 2 = 0 \quad \Delta = 1 + 4 = 5$ $x = \frac{-1 \pm \sqrt{5}}{-2}$ $x_1 = \frac{-1 + \sqrt{5}}{-2} \quad x_2 = \frac{-1 - \sqrt{5}}{-2}$
۲ $x_1 - 2x_2 > 0 \quad \Delta > 0$ $\text{در این حالت فرض کنیم } x_1 < \frac{a}{2} \rightarrow x_1 < 0$ $\text{در این حالت فرض کنیم } x_2 < \frac{a}{2} \rightarrow x_2 < 0$ $\text{در این حالت فرض کنیم } x_1 < \frac{a}{2} \rightarrow x_1 < 0$ $\text{در این حالت فرض کنیم } x_2 < \frac{a}{2} \rightarrow x_2 < 0$	۳ $P = \frac{x^2 - \sqrt{5}}{2} \times \frac{x^2 + \sqrt{5}}{2} = \frac{x^4 - 5}{4}$ $S = \frac{x^2 - \sqrt{5}}{2} + \frac{x^2 + \sqrt{5}}{2} = x^2$ $x^2 - 2x + \frac{5}{4} = 0 \rightarrow x = \frac{2 \pm \sqrt{4 - 5}}{2} = \frac{2 \pm i}{2}$
۴ $S = -\frac{b}{a} \rightarrow 2 \left(\frac{1}{2} \right) = 1$ $P = \frac{c}{a} \rightarrow \frac{1}{2} = \frac{1}{2}$ $x^2 - 2x + 1 = 0 \rightarrow (x-1)^2 = 0$ $x = 1$ $y = 1$	۵ $y = am^2 + bnm + c \rightarrow \frac{1}{2} = \frac{1}{2}$ $S(1, 1) \rightarrow \frac{1}{2} = \frac{1}{2}$ $y = 1 - 1 = 0 \rightarrow -1 = -1$ $y = -x^2 + (x+1) = 0 \rightarrow -x^2 + x + 1 = 0$ $x = \frac{-1 \pm \sqrt{5}}{-2}$ $x_1 = \frac{-1 + \sqrt{5}}{-2} \quad x_2 = \frac{-1 - \sqrt{5}}{-2}$

$$\alpha n^r - \gamma n^r \alpha \beta z^0$$

$$\alpha \beta z^0 - \frac{b}{\alpha} z^0 \rightarrow S$$

$$1) \alpha z^r \rightarrow r \alpha^r - \gamma n^r + \beta z^0 \rightarrow S z^0$$

$$r) \alpha z^r \rightarrow -r \alpha^r - \gamma n^r + \beta z^0 \rightarrow S z^0 - \frac{\gamma}{\alpha} z^r \rightarrow r \alpha \beta z^0 - \frac{\gamma}{\alpha} z^r \rightarrow \beta z^0 \rightarrow \alpha z^r$$

$$-r \alpha \beta z^0 - \frac{\gamma}{\alpha} z^r \rightarrow \beta z^0$$

$$\frac{1}{\alpha} z^0 - \frac{1}{\beta} z^0 + \frac{\gamma}{\alpha} z^r = \frac{\gamma}{\alpha} z^r$$

$$n^r - m^r - r m^r \rightarrow \alpha \beta z^0 \rightarrow \alpha^r - m \beta z^0$$

$$m^r z^r m - \beta z^r \rightarrow \alpha^r + \beta z^r - r m^r z^0$$

$$\alpha^r - m \beta z^0$$

$$\frac{c}{\alpha} z^0 \alpha \beta z^0 - r m^r z^0$$

$$(\alpha + \beta)^r + \frac{c m^r - r m^r}{r m} z^0 \rightarrow m^r + r m^r - \alpha z^0$$

$$\frac{(\alpha + \beta)^r}{r m} + \frac{c m^r - r m^r}{r m} z^0 \rightarrow (m^r - r)(\frac{m^r - \alpha}{r - \alpha}) z^0$$

$$f(m) z^0 m \alpha^r + \xi n^r + \frac{m^r}{r} + \gamma \rightarrow \frac{a}{r} k z^0$$

$$1) m z^r \rightarrow y z^0 \xi n^r + \xi n^r + \alpha z^0$$

$$r) m z^r \rightarrow y z^0 \xi n^r + \xi n^r + \gamma$$

$$\rightarrow y z^0 n^r - r m^r - r z^0 \rightarrow \alpha r c z^0$$

$$\rightarrow n z^0 - 1, n z^0 + r \rightarrow \frac{c m^r}{r m} k z^0 \rightarrow k z^0$$

$$(1, \xi), C z^0 / S(y) \rightarrow -\frac{b}{r \alpha} z^r \rightarrow -b z^0 \xi n^r \rightarrow y z^0 \alpha n^r - \xi \alpha m + \xi \frac{1}{r}$$

$$y z^0 - \frac{1}{r} n^r + r n^r + \xi \rightarrow \alpha z^0 - \frac{1}{r} z^0 \rightarrow -\xi \alpha z^0 \rightarrow y z^0 \xi n^r - \alpha n^r + \xi$$

$$\frac{1}{\alpha} + \frac{1}{\beta} z^0 \alpha \beta z^0 \rightarrow S z^0 \beta z^0 - \frac{1}{\alpha} z^0 \left[\frac{-1}{2} \right]$$

$$\xi - \alpha \alpha - \alpha + r \alpha^r + \gamma \alpha + r z^0 \rightarrow \alpha^r - r \alpha - 1 z^0$$

$$n^r - \alpha n^r + r z^0 \rightarrow (n^r - \gamma)(n^r - \gamma) z^0$$

$$(a-1)(a + \frac{1}{r})$$

$$\alpha^r - \frac{1}{r} z^0 + \frac{1}{r} z^0 \rightarrow \alpha z^0$$

$$\alpha z^0$$

$$\alpha z^0$$