

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۲۲ کلاس A

$$a^2 - \omega a + 2 = 0 \Rightarrow a^2 = \omega a - 2$$

$$x^2 - \omega x + 2 = 0 \Rightarrow B^2 - \omega B + 2 = 0 \quad B^2 = \omega B - 2$$

$$\frac{21\omega - 47\omega a}{11\omega - 2\omega a} = \frac{19(11\omega - 4\omega a)}{11\omega - 2\omega a} = 19$$

$$a + B = +\omega$$

$$aB = 2$$

$$B = \omega - a$$

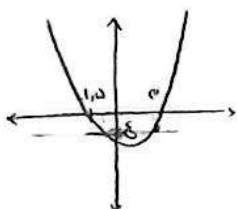
$$B^2 = B(\omega B - 2) = \omega B^2 - 2B$$

$$B^2 = B(\omega B - 1) = \omega B^2 - B \quad \omega(\omega B - 2) - 2B = 2\omega B - 1\omega$$

$$2\omega(\omega B - 2) - 1\omega B = 1\omega B - 4\omega$$

$$B^2(1\omega B - 4\omega) = 1\omega(\omega B - 2) + 4\omega B = 4\omega B - 2\omega$$

$$B^2(\omega - a) = 2\omega + \omega^2 - 1\omega a = 2\omega - \omega a = \omega B^2 - \omega(2\omega - \omega a) = \omega B^2 - 2\omega + \omega^2 a$$



$$\frac{2 - 11\omega}{2} = 11\omega - \frac{2}{\omega} \Rightarrow -\frac{b}{2a} = -\frac{b}{a} \left(\frac{1}{2} \right)$$

معادله درجه دوم

$$\frac{-b + \sqrt{b^2 - 4ac}}{2a} = \frac{-b - \sqrt{b^2 - 4ac}}{2a} = \frac{\sqrt{b^2 - 4ac}}{2a}$$

$$x^2 + 2kx + \omega = 0$$

بفرض

$$\Delta = 4k^2 - 4(1)(\omega) = 4k^2 - 4\omega$$

$$\left[\frac{9}{2} \right] \text{ (ع)}$$

$$\left(\frac{\sqrt{4k^2 - 4\omega}}{2} \right) = \frac{2k}{2} = k$$

$$4k^2 - 4\omega = \frac{16}{9}k^2 \quad \frac{16}{9}k^2 = 4\omega \quad \frac{4}{9}k^2 = \omega$$

$$k^2 = \frac{\omega}{\frac{4}{9}} = \frac{9\omega}{4} \quad \frac{9\omega}{4} = 9 \quad \omega = 4$$

$$\frac{\omega - \omega}{2} = -1$$

$$a + B = -2$$

$$y = a \left(x^2 + 2x - \frac{1}{2} \right)$$

$$y = a \left(1 - 2 - \frac{1}{2} \right)$$

$$a - B^2 = \omega$$

$$(a + B)^2 - 4aB = \omega$$

$$-2 - \omega = 4ab$$

$$-1 = 2ab \quad (ab = -\frac{1}{2})$$

$$y = 1 \quad 1 = a \left(-\frac{3}{2} \right) \quad a = -\frac{2}{3}$$

$$-\frac{2}{3} \times -\frac{1}{2} = \frac{1}{3}$$

$$x^2 - \omega x - m = 0$$

$$\omega + 4m > 0 \quad m > -\frac{\omega}{4} = -9, 2\omega$$

$$\frac{\omega \pm \sqrt{\omega^2 + 4m}}{2}$$

$$\frac{\omega - \sqrt{\omega^2 + 4m}}{2} < \frac{9}{2}$$

$$\omega - \sqrt{\omega^2 + 4m} < 9$$

$$-\epsilon < \sqrt{\omega^2 + 4m} - \omega$$

$$\frac{\omega + \sqrt{\omega^2 + 4m}}{2} < \frac{9}{2}$$

$$\omega + \sqrt{\omega^2 + 4m} < 9$$

$$\sqrt{\omega^2 + 4m} < 9 - \omega$$

$$\omega^2 + 4m < 81 - 18\omega + \omega^2 \quad 4m < 81 - 18\omega$$

$$-\frac{9}{2} > m > -9, 2\omega$$

$$m < -\frac{9}{2}$$



$\frac{-\Delta}{\epsilon a} = \frac{1\epsilon\epsilon - \epsilon m(\omega m - 1)}{\epsilon m} = \frac{m(\omega m - 1) - \epsilon\epsilon}{m} = \gamma$ $\omega m^2 - m - \epsilon\epsilon = \epsilon m$ $\omega m^2 + 1m - \epsilon\epsilon$ $(m - \omega)(m + 1) \Rightarrow m = \frac{\omega}{\omega + 1} \quad \text{و } \omega = \frac{\epsilon\epsilon}{\epsilon\epsilon + 1}$ $y = \mu\lambda^2 - \lambda + 1\epsilon$ $\frac{-b}{2a} = \frac{-1\epsilon}{\epsilon} = (+1)$	6
$a = \alpha r \quad x^2 + r(\alpha + 1)x + r\alpha - 1 = 0 \quad a = -1 - \sqrt{r}$ $B = \alpha r^2 \quad \alpha + \beta = -r(\alpha + 1) \quad \beta = -1 + \sqrt{r}$ $\alpha\beta = r\alpha - 1 \quad \alpha, \alpha, \beta = -1 - \sqrt{r}, 1, -1 + \sqrt{r}$ $a^2 = \alpha\beta \quad x^2(r)x + (r - 1) = 0 \quad \boxed{a = 1}$ $a^2 = r\alpha - 1 \quad (\alpha - 1)^2 = 0 \quad x^2 + rx + 1 = 0$ $\boxed{a = 1} \quad x = -1 \pm \sqrt{r}$	7
$x^2 - 0x^2 - \omega = 0$ $x^2 = \frac{+V \pm \sqrt{V^2 + 4\omega}}{2} \quad x = \frac{+V \pm \sqrt{V^2 + 4\omega}}{2}$ $r\rho^2 - \omega S\rho + \omega S = r\rho^2 \Rightarrow \omega S = \frac{r\rho^2 + \omega S}{r\rho^2} = \omega S + V\sqrt{4\epsilon}$	8
$y = 12x^2 - 2x - 9 \quad \frac{-\epsilon}{15} - 9 = -\epsilon\left(\frac{r}{15}\right) - \epsilon$ $\frac{-b}{2a} = \frac{\epsilon}{15} = \frac{r}{15} \quad \frac{-\epsilon}{15} + \frac{1}{15} = r$ $r\left(\frac{\epsilon}{15}\right) - \epsilon\left(\frac{r}{15}\right) - 9 = -\frac{\epsilon}{15} - 9 \quad \boxed{r = 1}$ $\frac{-\epsilon}{15} - 9 = -1$	9
$y = -mx^2 + m\alpha + 1 \quad -mx^2 + (m+1)x + m + 1 = 0$ $y = -m - x \quad \Delta < 0 \quad (m+1)^2 - 4(-m)(m+1) < 0$ $(m+1)(\omega m + 1) < 0$ $\Rightarrow -1 < m < -\frac{1}{\omega} \Rightarrow \text{محل صفر}$	10