

نام و نام خانوادگی: پاسبان شماره: ۲۲ ... کلاس: پاسخنامه تشریحی تکلیف شماره ۲۲ ...

$$\alpha + \beta = \frac{-b}{2a} = \omega \quad \frac{c}{a} = \alpha \cdot \beta = 2$$

$$B^r = \omega B^r \rightarrow B^r \cdot B(B^r) = B(\omega B^r) = \omega(BB^r)$$

$$B^r \cdot B(B^r) = 1 \cdot \omega B - 2^r$$

$$B^r = B(B^r) \rightarrow B(1 \cdot \omega B^r - 2^r) \rightarrow \frac{2^r - 2B^r + 2^r B - 2^r}{2\omega B - 10} = \frac{19(2\omega B - 10)}{2\omega B - 10} = 19$$

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$$\frac{-1 \cdot \omega + 2^r}{2} = 0.170 \rightarrow \frac{x_1 + x_2}{2} = 0.170 \rightarrow x_1 + x_2 = 0.34$$

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$$x_1, x_2 = \frac{-b \pm \sqrt{\Delta}}{2a} = \frac{-2k \pm \sqrt{4k^2 - 2^r}}{2} = -k \pm \sqrt{k^2 - 2^{r-1}}$$

$$-2 + \sqrt{k^2 - 2^{r-1}} + 2 + \sqrt{k^2 - 2^{r-1}} = \frac{2^r}{2} \rightarrow 2\sqrt{k^2 - 2^{r-1}} = \frac{2^r}{2} \rightarrow \sqrt{k^2 - 2^{r-1}} = \frac{2^{r-1}}{2} \rightarrow k^2 - 2^{r-1} = \frac{2^{2r-2}}{4} \rightarrow k^2 = \frac{2^{2r-2}}{4} + 2^{r-1} = \frac{2^{2r-2} + 2^{2r-1}}{4} = \frac{2^{2r-2}(1+2)}{4} = \frac{2^{2r-1}}{2} = 2^{2r-2}$$

$$\left[\frac{k^r}{2}\right] = \left[\frac{2^{r-1}}{2}\right] = 2^{r-2}$$

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$$\frac{-\omega + 2^r}{2} = -1 \rightarrow \frac{-b}{2a} = -1 \rightarrow b = 2a \rightarrow 2a - b = 0 \rightarrow \alpha + \beta = \frac{-b}{a} = \frac{-2a}{a} = -2$$

$$\alpha + \beta = (\alpha + \beta) \cdot 2\alpha\beta \rightarrow \omega = 2 \cdot 2\alpha\beta \rightarrow \gamma = \alpha x^r \cdot b x \cdot c \xrightarrow{(-1,1)} 1 = -\alpha + c \rightarrow c = 1 + \alpha$$

$$\frac{1 + \alpha}{a} = \frac{-1}{2} \rightarrow a = \frac{2}{1 + \alpha}$$

$$\frac{-b \pm \sqrt{\Delta}}{2a} \leq \frac{9}{2} \rightarrow -\omega \pm \sqrt{2\omega + 2^r m} \leq 2 \rightarrow 2\omega + 2^r m \leq 16 \rightarrow m \leq \frac{16 - 2\omega}{2^r} = \frac{16 - 2 \cdot 2}{2^r} = \frac{12}{2^r} = \frac{3}{2^{r-2}}$$

$$m \leq -\frac{1}{2^r} = -\frac{1}{2^r} \cdot 2\omega$$

$$m \leq -\frac{1}{2^r} \cdot 2^r = -1$$

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$\frac{-\Delta}{\gamma a} = \gamma - \Delta = \Delta a \rightarrow -b^2 + 4ac = \Delta a \rightarrow -1^2 + \gamma m^2 - \gamma m = \Delta a$ $\gamma m^2 - \gamma m - 1^2 = 0$ $\omega m^2 - \gamma m - 1^2 = 0$ $(m-1)(m+1) = 0$ $m = \gamma \pm \frac{-1^2}{\omega}$ $\frac{-b}{\gamma a} = \frac{1^2}{\gamma} = \gamma$	6
$x^r = \gamma(a+1) + \gamma a - 1 \rightarrow \frac{-b \pm \sqrt{\Delta}}{\gamma a} \rightarrow x_1 = -a - 1 + \sqrt{a^2 + \gamma}$ $a^r = a\beta \rightarrow a^r = (a-1, \sqrt{a^2 + \gamma})(a + \sqrt{a^2 + \gamma}) \rightarrow a^r = \gamma a + \gamma_0 \rightarrow \Delta < 0 \text{ و } \gamma$	7
$x^r = t \quad t^r - vt - a = 0 \rightarrow \frac{-b \pm \sqrt{\Delta}}{\gamma a} = \frac{v \pm \sqrt{\gamma^2}}{\gamma} \rightarrow t = \frac{v - \sqrt{\gamma^2}}{\gamma}$ $S = \frac{v - \sqrt{\gamma^2} + v + \sqrt{\gamma^2}}{\gamma} = v$ $P = \frac{v - \sqrt{\gamma^2}}{\gamma} \times \frac{v + \sqrt{\gamma^2}}{\gamma} = \frac{\gamma^2 - \gamma^2}{\gamma^2} = -\frac{\gamma_0}{\gamma} = -\omega$ $\omega_0 + 10\omega + 1^2 = 1^2 \gamma$	8
$\frac{-b}{\gamma a} = \frac{\gamma}{\gamma k} = \frac{\gamma}{k} \rightarrow y_s = \frac{-\Delta}{\gamma a} = \frac{-1^2 - \gamma^2 k}{\gamma k} = \frac{-1^2 - \gamma^2}{k}$ $\frac{-1^2 - \gamma^2 k}{k} = \frac{-1}{k} - \gamma = \frac{-1 - \gamma^2 k}{k} = -1 - \gamma^2 k = -1^2 + \gamma^2 k \rightarrow \gamma^2 k = 1^2 \rightarrow k = \gamma^2$ $y_s = \frac{-1^2 - 1^2}{\gamma} = -1$	9
$-m - x = -m x^r m x^r + 1 \rightarrow -m x^r + m x^r + 1 \rightarrow -m x^r + (m+1) x^r + m + 1 \rightarrow \Delta < 0$ $m^2 + \gamma m + 1 - \gamma(-m)(m+1) < 0$ $\omega m^2 + \gamma m + 1 \rightarrow m^2 + \gamma m + a < 0$ $(m+1)(m+1) < 0$ $m = -1, -\frac{1}{\omega}$ هجوم در صحنه قرار	10