

$$\frac{-b}{2a} = \gamma \Rightarrow \frac{-1}{2(a-1)} = \gamma \quad 2a-2 = -1 \quad a = \frac{1}{2} \Rightarrow \frac{-1}{2}n^2 + n + \frac{1}{2}$$

$$\Rightarrow \omega_{\text{شماره}} \Rightarrow \boxed{\text{بسته}} \quad \omega_{\text{شماره}} = 2 - 2 \quad \checkmark$$

$$- + - \Rightarrow m < 0 \quad \omega_{\text{شماره}} \Rightarrow \delta > 0 \quad 2\omega - 4m^2 > 0$$

$$(\omega - 2m)(\omega + 2m) > 0 \Rightarrow \frac{-\frac{\omega}{2}}{-1} + \frac{\frac{\omega}{2}}{-1} \Rightarrow \left(\frac{-\omega}{2}, \frac{\omega}{2}\right) \cap (-\infty, 0) =$$

$$\left(-\frac{\omega}{2}, 0\right) \quad \checkmark$$

$$\frac{1 \pm \sqrt{5}}{2} = m \Rightarrow 2m = 1 \pm \sqrt{5} \quad (2m-1)^2 = (\pm\sqrt{5})^2$$

$$4m^2 - 4m + 1 = 5 \Rightarrow 4m^2 - 4m - 4 = 0 \quad \checkmark$$

$$2a^2 + 2b^2 + a^2 - b^2 = \gamma (s^2 - 2p) + (a+b)(a-b) = \gamma (s^2 - 2p) \pm \frac{\sqrt{\Delta}}{2}$$

$$s = \gamma \quad a < b \Rightarrow \text{منفی}$$

$$p = \frac{m+1}{2} \quad \gamma \left(1 - 2 \times \frac{m+1}{2}\right) - 2 \times \frac{\sqrt{4^2 - 4 \times 2(m+1)}}{2} = 12$$

$$\Rightarrow m = 4 \quad \checkmark$$

$$k(m-1)^2 + 9 = f(0) = \Delta \Rightarrow k = -1 \Rightarrow -(m-1)^2 + 9 = 0$$

$$-m^2 + 2m + 8 = 0 \Rightarrow -(m+1)(m-8) \Rightarrow (-1, 8) \quad \checkmark$$

$$\frac{a\beta}{a} = a\beta \quad a = \frac{1}{\gamma} \sqrt{-\gamma} \quad \frac{V}{a} = a + \beta \Rightarrow \beta = \frac{V}{\gamma}$$

$$\frac{1}{a} + \frac{1}{\beta} = \frac{1}{\frac{1}{\gamma} \sqrt{-\gamma}} + \frac{1}{\frac{V}{\gamma}} = \frac{\gamma}{\sqrt{-\gamma}} + \frac{\gamma}{V} = \frac{\gamma + \sqrt{-\gamma}}{\gamma} \checkmark$$

(2)

$$\beta^2 - \gamma m = -\beta \quad a^2 + \beta^2 - \gamma m = 1 \quad a + \beta = -m \Rightarrow$$

$$s^2 - \gamma p = \gamma m = 1 \Rightarrow m^2 + \gamma m - \gamma m = 1 \quad a\beta = -\gamma m$$

$$m > 0 \Rightarrow m^2 + \gamma m > 0 \quad m < -1 \quad m = \frac{1}{\gamma} \sqrt{-\gamma}$$

$$a + \beta = -m = -\frac{1}{\gamma} \checkmark$$

(2)

$$m < 0 \quad \frac{m(\frac{m}{\gamma} + V) - \gamma m}{\gamma m} = 1 \quad m = \frac{1}{\gamma} \sqrt{-\gamma}$$

$$-\gamma m^2 + \gamma m + \gamma = 0 \Rightarrow m = -1, \gamma \quad K = \gamma \checkmark$$

(2)

$$k(m - \gamma)^2 + \gamma \Rightarrow f(0) = \gamma \Rightarrow \gamma k + \gamma = \gamma \quad \frac{\gamma}{\gamma} = \frac{1}{\gamma} = k$$

$$-\frac{1}{\gamma}(m - \gamma)^2 + \gamma = -\frac{m^2}{\gamma} + \gamma m + \gamma = 0 \quad S = \gamma \quad P = -1$$

$$\frac{1}{a} + \frac{1}{\beta} = \frac{a + \beta}{a\beta} = \frac{\gamma}{-1} = -\frac{1}{\gamma} \checkmark$$

(2)

$$\gamma - \gamma(\gamma a + \gamma) + (\gamma a^2 + \gamma a + \gamma) = 0 \quad \gamma - 1a - 1 + \gamma a^2 + \gamma a + \gamma = 0$$

$$\gamma a^2 - \gamma a - 1 = 0 \quad a = 1, \frac{-1}{\gamma} \Rightarrow a = 1 \quad m^2 - \gamma m + 1 = 0 \quad (m - \gamma)(m - 1) = 0$$

$$a = -\frac{1}{\gamma} \quad m = 1, \gamma \checkmark$$

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$$a = -\frac{1}{\gamma} \rightarrow \gamma m^2 - \gamma m + 1 = 0 \quad \begin{cases} m = 1 \\ m = \frac{\gamma}{\gamma} \end{cases}$$

(1,5)

خوبه