

$$\alpha \times \beta = 2$$

$$\alpha + \beta = \omega \rightarrow \alpha = \omega - \beta$$

$$\beta^2 - \omega\beta + 2 = 0 \rightarrow \beta^2 = \omega\beta - 2$$

$$\frac{\alpha + \beta}{\omega\beta^2} = \frac{\omega}{\omega} \times \frac{\alpha}{\beta^2} + \frac{1}{\omega} \times \frac{\beta}{\beta^2} \rightarrow \frac{\omega}{\omega} \times \frac{\omega - \beta}{\omega\beta - 2} + \frac{1}{\omega} \times \frac{1}{\beta}$$

$$\rightarrow \frac{\omega}{\omega} \times \frac{\omega - \beta}{\omega\beta - 2} + \frac{1}{\omega} \times \frac{\omega\beta^2}{\omega\beta^2 - 2\beta^2} \rightarrow \frac{\omega - \beta}{\omega(\omega\beta - 2)} + \frac{\omega\beta - 1}{\omega(\omega\beta - 2)}$$

$$\xrightarrow{\text{مخرج مشترک}} \frac{\omega\beta - 1 + \omega\beta - 1}{\omega(\omega\beta - 2)} \rightarrow \frac{2\omega\beta - 2}{\omega(\omega\beta - 2)} = 1$$

$$\begin{cases} -c = qa + pb + c \\ -c = 2\omega a - 1ab + c \end{cases} \rightarrow 4\omega a - 5ab = 2c \rightarrow b = -1, \omega a$$

$$\text{مجموع} = -\frac{b}{a} \rightarrow \frac{+1\omega a}{a} = \boxed{1, \omega}$$

$$\frac{\sqrt{\Delta}}{|a|} = \sqrt{4k^2 - 20} = \frac{4}{3}k \rightarrow 4k^2 - 20 = \frac{16}{9}k^2 \rightarrow \frac{20}{9}k^2 = 20 \rightarrow k^2 = 9$$

$$\left[\frac{k^2}{2} \right] \rightarrow \left[\frac{9}{2} \right] \rightarrow \boxed{4.5}$$

$$\frac{a}{b} \rightarrow \frac{-a+p}{r} = -1 \rightarrow \frac{-b}{ra} \rightarrow \frac{-b}{a} = -2 \Rightarrow \boxed{2.5} \quad \text{نسبت} \quad \frac{a}{b} \rightarrow y_2 a(n+1) + 1$$

$$\alpha^2 + \beta^2 = \omega \rightarrow 5^2 - 2\beta = \omega \rightarrow 5 - 2\left(\frac{a+1}{a}\right) = \omega \rightarrow \frac{-5a-2}{a} = 1 \rightarrow a = -\frac{7}{3}$$

$$\text{مخرج از} = y_2 = \frac{7}{3}(n+1) + 1 \rightarrow \frac{7}{3} + 1 = \boxed{\frac{10}{3}}$$

$$\omega \rightarrow \frac{-\omega \pm \sqrt{4\omega + 4m}}{-2} \quad \frac{\text{نسبت به } \frac{1}{r}}{\frac{9}{r} \text{ از } \frac{1}{r}} \left(\frac{-\omega - \sqrt{4\omega + 4m}}{-2} \times \frac{9}{r} \right) \times r$$

$$\omega + \sqrt{4\omega + 4m} < 9 \rightarrow \sqrt{4\omega + 4m} < 9 - \omega \rightarrow 4\omega + 4m < 81 - 18\omega + \omega^2 \rightarrow m < \frac{\omega^2 - 22\omega + 81}{4}$$

$$\text{از طرف} \rightarrow \Delta > 0 \rightarrow 4\omega + 4m > 0 \rightarrow m > -\frac{\omega}{1} \quad \frac{-\omega}{4} < m < \frac{\omega^2 - 22\omega + 81}{4} \rightarrow \text{محدوده } m: \boxed{(-\frac{\omega}{4}, \frac{\omega^2 - 22\omega + 81}{4})}$$

$$m > 0$$

$$\Delta < 0$$

$$m^2, \begin{cases} -b \\ ca \end{cases} \rightarrow \frac{1^2}{r_m} = \frac{y}{m} \rightarrow r^2 = \frac{my}{m} - \frac{v^2}{m} + \frac{\Delta m}{m} - 1 \rightarrow r^2 = \frac{am^2 - my}{m}$$

$$\frac{y}{m} = r$$

$$\frac{r \pm \sqrt{V^2 + 4g}}{1.0} \rightarrow \begin{matrix} r \\ -r \end{matrix}$$

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$$\alpha \cdot \beta = a^p \rightarrow \alpha a - 1 = a^p \rightarrow a^p - \alpha a + 1 = 0 \quad (a-1)^p = 0 \quad \boxed{a=1}$$

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$$x^p = t$$

$$t^p - vt - a = 0 \rightarrow \frac{v \pm \sqrt{4g}}{p} \rightarrow \text{discriminant} \rightarrow x^p = \frac{v + \sqrt{4g}}{p} \rightarrow x = \pm \sqrt{\frac{v + \sqrt{4g}}{p}}$$

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$$rp^p \rightarrow r \times \left(\frac{v + \sqrt{4g}}{p} \right)^p = \boxed{a^p + v\sqrt{4g}} p_2 = \frac{v + \sqrt{4g}}{p}$$

$$db = \frac{-b}{ca} \rightarrow \frac{f}{rk} = \frac{r}{k} \xrightarrow{\text{discriminant}} \frac{-1}{k} = f = \frac{f}{k} - \frac{1}{k} - y \rightarrow r = \frac{f}{k} \rightarrow \boxed{k = f}$$

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$$y = rn^p - en - y \rightarrow r(1) - f(1) - y = \boxed{-1}$$

$$-m n^p + m n + 1 \neq -m - n \quad m n^p - (1+m)n - 1 - m \neq 0$$

$$\Delta < 0 \quad (1+m)^p \in \mathbb{C}(m)(-1-m) \quad 1m^p + pm + em + em^p < 0 \quad \Delta m^p + ym + 1 < 0$$

1.

$$m = \frac{-y \pm \sqrt{1y}}{1.0} \rightarrow \begin{matrix} -0.5 \\ -1 \end{matrix}$$