

$$y = (a-1)^2 a^2 + m + 3 \rightarrow y = -\frac{1}{\varepsilon} m^2 + m + 3$$

$$-\frac{b}{2a} = 2 \Rightarrow -\frac{1}{2a-2} \rightarrow 2 \rightarrow 2a-2 = 4 \rightarrow 2a = 6 \rightarrow a = \frac{3}{\varepsilon}$$

$$y = -\frac{1}{\varepsilon} m^2 + m + 3 \Rightarrow m^2 - \varepsilon m - 12 = (m-4)(m+3)$$

$\sqrt{4} \quad \sqrt{-12}$

① $\rightarrow m < 0$ (منفی)

$$\Delta = b^2 - 4ac = 2a - 4a^2 > 0 \rightarrow (2-2a)(a+2m) > 0$$

② $m \in (-\frac{2}{\varepsilon}, \frac{2}{\varepsilon})$

① $\cap$ ② $\rightarrow (-\frac{2}{\varepsilon}, 0)$

$$\alpha = \frac{3-\sqrt{5}}{2} \rightarrow \alpha + \beta = \frac{3-\sqrt{5} + 3+\sqrt{5}}{2} = 3$$

$$\beta = \frac{3+\sqrt{5}}{2} \rightarrow \alpha\beta = \frac{3-\sqrt{5}}{2} \times \frac{3+\sqrt{5}}{2} = \frac{9-5}{4} = \frac{\varepsilon}{4}$$

$$m^2 - 5m + 6 \rightarrow m^2 - 2m + \frac{\varepsilon}{4} \rightarrow 4m^2 - 4m + \varepsilon$$

$$2\alpha^2 + \beta^2 = 12 \rightarrow 2\alpha^2 + 2\beta^2 + \alpha^2 - \beta^2 = 12 \rightarrow 2(\alpha^2 + \beta^2) + (\alpha+\beta)(\alpha-\beta)$$

$\frac{5^2 - \varepsilon^2}{4}$

$$2(14-m-2) + 3(\frac{\sqrt{5}}{2}) = 12$$

$$21-2m+3(\frac{\sqrt{4\varepsilon-5m-4}}{2}) = 12 \rightarrow 21-2m+3\sqrt{\varepsilon m-4m} = 12$$

$$3\sqrt{\varepsilon m-4m} = -9+2m \rightarrow 18\varepsilon - 36m = 21\varepsilon + 4\varepsilon m^2 - 4\varepsilon m \rightarrow \varepsilon m^2 - 3\varepsilon m + 4\varepsilon = 0$$

$$m^2 - 3m + 4 = 0 \rightarrow (m-2)^2 = 0 \rightarrow m = 2$$

۱۴ $\rightarrow \frac{b}{2a} = c \rightarrow -b = \varepsilon a \quad b = -\varepsilon a$

$$y = a(m-h)^2 + k \rightarrow 2 = a(-2)^2 + 9 \rightarrow a = -1$$

$$y = -m^2 + 4m + 2 \rightarrow \Delta < 0 \rightarrow y = (m-2)(m+1) = 0$$

$\sqrt{2} \quad \sqrt{-1}$

$$y = m^2 - \varepsilon m - 2$$

$\frac{-1 \pm \sqrt{1+8}}{2} \Rightarrow \Delta < 0 \rightarrow (-1 > 0)$

$$a u^c - v m + q \beta > . \quad \beta > .$$

$$\rightarrow a(a^c) - v a + q \beta = . \rightarrow a^c - v a + q \beta = . \rightarrow a^c - q a = .$$

$$\alpha (a^c - q) = . \rightarrow a > . \rightarrow a = \pm r \rightarrow \boxed{r \checkmark}$$

$$\alpha \beta^r - v \beta + q \beta = . \rightarrow \beta^r a + r \beta = . \quad \beta(\beta a + r) = . \rightarrow \beta = -r$$

$$\frac{q \beta}{\alpha} \rightarrow q \beta = -r q \quad \beta > . \quad \alpha < . \rightarrow \alpha = -r \quad \frac{1}{\beta} + \frac{1}{\alpha} = \frac{2}{p} = \frac{1}{q}$$

$$u^c + m u - r m = . \quad a^r = r m - m m$$

$$a^r - m \beta = \Lambda \rightarrow r m - m a - m \beta = \Lambda \rightarrow r m - m(a + r \beta) = \Lambda$$

$$m^r + r m - \Lambda = . \quad (m + \epsilon)(m - r) = .$$

$$\rightarrow m = -\epsilon \rightarrow m^c - 2m + \Lambda \rightarrow 4 - \epsilon(\Lambda) < . \quad \alpha$$

$$\rightarrow m = r \rightarrow m^c + r m - 2 = . \rightarrow \epsilon - (\epsilon)(-\epsilon) > . \quad v$$

$$m^c + \epsilon a + 2 = . \quad \frac{-b}{a} = \frac{-c}{d} \rightarrow \boxed{a + \beta = -r}$$

$$y = m m^c + \epsilon m + \frac{m}{2} + v \rightarrow m(\frac{m}{2} + v) = \frac{m^c}{r} + v m$$

$$\frac{-\Delta}{\epsilon a} = \Lambda \quad \frac{14 - r m^c - r \Lambda m}{-\epsilon m} = \Lambda \rightarrow -r m^c - \epsilon \Lambda m + 14 = -r r m$$

$$m^c - 2m - r r \rightarrow (m - r)(m + r) \rightarrow \frac{r v}{\epsilon a}$$

$$y = -r m^c + \epsilon m + 4 \rightarrow (m - r)(m + r) \rightarrow \boxed{K = r}$$

$$S = \int_4^r \rightarrow y = a(m - r)^c + K \rightarrow t = a(-r)^r + 4 \rightarrow \epsilon a = -r \quad \alpha = -\frac{1}{r}$$

$$A = \begin{bmatrix} \epsilon \\ 1 \end{bmatrix} \quad y = -\frac{1}{r} (m - r)^r + 4 \rightarrow y = -\frac{1}{r} m^r + r m + 4$$

$$\Delta > . \rightarrow \epsilon - 2(-\frac{1}{r} \times \epsilon) = 1r \quad u_1 = \frac{-r + r\sqrt{r}}{-1} = r + r\sqrt{r}$$

$$u_2 = \frac{-r - r\sqrt{r}}{-1} = r - r\sqrt{r}$$

$$\frac{1}{r + r\sqrt{r}} + \frac{1}{r - r\sqrt{r}} \rightarrow \frac{r - r\sqrt{r} + r + r\sqrt{r}}{\epsilon - 1r} = \frac{\epsilon}{-1} = \boxed{\frac{-1}{r}}$$

$$u = r \quad \epsilon - (\epsilon a + \epsilon)^r + (r a^c + 4 a + r) = . \rightarrow \epsilon - \Lambda a - r \Lambda + r a^c + 4 a + r = .$$

$$a a^c - r a - 1 = . \rightarrow a^r - r a - r = . \quad (a + 1)(a - r) = . \quad \begin{matrix} \nearrow \frac{1}{r} \\ \searrow -\frac{1}{r} \end{matrix}$$

$$\alpha = 1 \rightarrow m^c - r m + 1r \quad (m - r)(m - 4) \rightarrow \frac{r}{4}$$

$$\alpha = -\frac{1}{r} \rightarrow m^c - \frac{1}{r} m + \frac{\epsilon}{r} \rightarrow r m^c - \Lambda m + \epsilon = . \quad m^c - \Lambda m + r = (m - r)(m - 4)$$