

سائیکس بین

تاریخ:

① $\frac{-b}{ra} = -1 \quad ra = b$

$$\left. \begin{aligned} 1 &= a_1 a_2 a_3 + C \\ a &= a - ra + C \end{aligned} \right\} \begin{aligned} a &= -r \quad b = -\varepsilon \quad c = r \\ -1 &= 14a \rightarrow a = -r \end{aligned}$$

② $r m^2 + m n + (m+4) = 0 \quad a = r \quad b = m$
 $c = m+4$

$\Delta > 0 \rightarrow m^2 - \varepsilon(r)(m+4) > 0 \quad m^2 - 1m - \varepsilon > 0$
 $(m+1)(m+\varepsilon) > 0 \quad m < -1 \quad m < -\varepsilon$

$m \in (-\infty, -\varepsilon] \cup [1, +\infty)$

$p > 0 \quad p = \frac{c}{a} \quad \frac{m+4}{r} > 0 \rightarrow m+4 > 0 \quad m > -4$

$-q > 0 = -\frac{b}{a} = \frac{m}{r} > 0 \rightarrow m > 0 \quad m < 0$

$\left. \begin{aligned} m &\leq -\varepsilon, m > 1 \\ m &> -4 \\ m &< 0 \end{aligned} \right\} \rightarrow -4 < m \leq \varepsilon$
 $m \in (-4, -\varepsilon]$

③ $r m^2 + n(r m - 1) + (r - m) = 0 \quad a = r \quad b = r m - 1$
 $c = r - m$

$m_1 + m_2 = \frac{-b}{a} = \frac{-r m + 1}{r} \quad m_1, m_2 = \frac{r - m}{r}$

$m_1 + m_2 = \frac{1}{n, m_1} \quad \frac{r m - 1}{r} = \frac{r}{r m} \rightarrow r m$

$-r m + r m^2 + r - m = 0 \quad r m^2 - a m - \sqrt{2} = 0$

$m = \frac{a \pm \sqrt{a^2 - 4b}}{2} \quad (m = \frac{1}{r}) \quad (m = -1) \rightarrow \times$

④ $n^2 - m - \varepsilon = 0 \quad m_1 + m_2 = 1 \quad m_1, m_2 = \varepsilon$

$f_1 = m^2 + \frac{1}{n_1} \quad g = m^2 + \frac{1}{m^2} \quad y^2 - 8y + p = 0$

$g = \frac{m^2 + m^2}{1/r} + \frac{1}{m_1} + \frac{1}{n}$

$1/r - 1/\varepsilon = \frac{1/r + 1/\varepsilon}{-1/\varepsilon}$

(a) $m_1 + m_2$

$$\left(\sqrt[m]{m^r + \frac{1}{\sqrt[m]{m^r}}} + 1 \right) \left(\sqrt[m]{m^r - 1} \right) \sqrt[m]{m^r} = 0$$

$$(m - i - \frac{1}{m} = 1) \cdot m$$

$$m_1 + m_2 = \frac{-b}{a} \quad \underbrace{m^r - m - 1 = r m}_{(\varepsilon)}$$

(c) $m_1 = r, m_2 = \frac{1}{r}$

$$m_1 m_2 = \frac{1}{r} \cdot r = 1 \quad r^r = \frac{\varepsilon}{r} \quad \text{or } r^r = \frac{\varepsilon}{a} \quad r = \pm \frac{1}{r}$$

$$m_1 + m_2 = \varepsilon r = \frac{-b}{a} \quad b = -a \quad \frac{a}{r} \leq r = a/r$$

$$a \geq 1/r \quad r = 1/r \quad a \geq 1 \quad r = -1/r \quad a \leq -1 \quad a(-(-1)) \geq 1/r$$

(d) $y = a m^r + (r + \frac{1}{r}) m$

$$m < 0 \quad y > 0 \quad a < -1/r \quad (r a + 1/r) > 0$$

$$a + \frac{1}{r} \xrightarrow{\text{condition}} -\frac{1}{r} \{ a < 0 \}$$

(e) $-m^r - m + b, m^r + m - r$

$$-1 - r + b = 1 \quad b = \varepsilon$$

$$a b = 1$$

$$\frac{-r}{r} = -1 \quad 1 - r - r = -r^2$$

$$m^r + m - r = 1 \quad m^r + m - r = 0$$

$$(m + r)(m - 1) = 0 \quad m = -r, 1$$

(f) $r a t^r + a t - 4 = 0 \quad r(t + 1/r)^r - a(t + 1/r) + b = 0$

$$r t^r + (r - a) t + \frac{1 - a}{r} + b = r a t^r + a t - 4 = 0$$

$$\frac{1 - a}{r} + b = 4 \quad b = -4$$

$$\left(\frac{a b}{\varepsilon} \right) = \frac{-4}{\varepsilon} = \frac{-r}{r}$$

تاریخ:

⑩

$$\sum m = - \xi m \rightarrow m_2 m_1$$

$$m^2 - 4m + m = 0 \quad m^2 \geq 0 \rightarrow m \geq 0$$

$$m^2 + 2m - 18 = 0$$

$$(m - 8)(m + 1) \geq 0 \rightarrow -1, 8$$

$$m^2 + 4m + 8 \rightarrow (m + 8)(m + 1)$$

$$x = (-1) \text{ و } (8)$$

$$m \rightarrow -8, -1$$