

: quadratic

$$x^2 - ax + r = 0$$

$$\beta = r\alpha$$

$$r\alpha^2 = \frac{r}{r}$$

(1)

$$\alpha + r\alpha = r\alpha = \frac{+a}{r}$$

$$\alpha^2 = \frac{r}{a} \rightarrow \alpha = \pm \frac{r}{a}$$

$$\rightarrow a = r\alpha \rightarrow r \times \frac{r}{r} \rightarrow -a$$

$$\hookrightarrow \frac{r}{r} \times \frac{r}{r} \rightarrow a$$

$$\text{sum} = a - (-a) = 14$$

$$x^2 - (m+r)x + 1 = 0$$

(2)

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

(r)

$$mx^2 + rx + r = 0$$

$$\frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = 0$$

$$(\sqrt{b} + \sqrt{a})^2 - \beta + \alpha + r\sqrt{ab}$$

$$\frac{(\beta + \alpha)}{\sqrt{ab}} = 0$$

$$\frac{\sqrt{\frac{m+r}{ru}}}{\frac{1}{u}} = \sqrt{m+r} = 0$$

$$\frac{m+r+1}{ru} = \frac{m+ru}{ru}$$

$$\rightarrow m = -1$$

$$-a^2 + rx + r = 0 \rightarrow r = -r$$

(3)

$$x^2 + rx - a - r = 0$$

$$\alpha\beta = -r$$

$$\alpha + \beta = 1$$

$$\alpha = 1 - \beta$$

$$\beta = 1 - \alpha \rightarrow -1 + 1 + a - r = 0$$

$$r = -1$$

$$(1 - \beta)r = -r$$

$$\beta - \beta^2 = -r$$

$$\beta^2 - \beta - r = 0$$

$$\alpha = r \rightarrow r^2 + ru - 1 - r = 0$$

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

$$u = -r$$

$$\beta = r$$

$$\alpha = 1 - r = -1 \quad (r^2 - r)(r + 1) = 0$$

$$\beta = -1 \quad \alpha = 1 - (-1) = 2$$

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$$m^2 + un + a = 0$$

$$\alpha < \beta < 0$$

(3)

$$a = ?$$

$$r\alpha^2 + r\beta^2 = 1/r + 1/a$$

$$a = ru - ra \rightarrow \frac{u \pm \sqrt{u^2 - 4a}}{r} = -\frac{u}{r} + \frac{a}{r}$$

$$\rightarrow \alpha^2 = \frac{a}{r} - \frac{a}{u} \quad \alpha^2 = \frac{ra - u}{u} = \frac{1/a - u}{1/a} = 1 - a - u\sqrt{a-a}$$

$$\beta^2 = 1 - a + u\sqrt{a-a}$$

$$ru - ra + 1/r\sqrt{a-a} \quad a - a - u\sqrt{a-a} = 1/r + 1/a \rightarrow$$

$$a - 1/r = a + u\sqrt{a-a} \rightarrow 1/r = u\sqrt{a-a} \rightarrow a - a = 1 \rightarrow a = 1$$

$$m^2 - vn^2 - 0 = 0 \quad v + 0 \cdot r\beta^2 - r\beta^2 + r\beta$$

(4)

$$t^2 - vt - 0 = 0 \rightarrow r\beta^2 - r\beta^2 + r\beta = 0 + v\sqrt{4a}$$

$$t = \frac{v \pm \sqrt{4a}}{r} \rightarrow m^2 = \frac{v \pm \sqrt{4a}}{r} \rightarrow m = \sqrt{\frac{v \pm \sqrt{4a}}{r}}$$

$$S = 0 \quad P = \frac{v + \sqrt{4a}}{r}$$

$$m^2 = -\frac{v + \sqrt{4a}}{r}$$

$$r m^2 - a n + b = 0$$

$$\text{if } \alpha = 0, \beta = 0 \quad (4)$$

$$r\alpha n^2 + a n - u$$

$$\alpha, \beta$$

$$\begin{bmatrix} a & b \\ r & r \end{bmatrix} = \begin{bmatrix} -\frac{a}{r} & 1 \\ -\frac{b}{r} & 1 \end{bmatrix} = -\frac{1}{r}$$

$$S = \frac{a}{ra} = -\frac{1}{r} \rightarrow \alpha + \beta = -\frac{1}{r}$$

$$P = -\frac{u}{r} = -r$$

$$\alpha + \beta + 1 = \frac{1}{r} \rightarrow \frac{a}{r} = \frac{1}{r} \rightarrow a = 1$$

$$\alpha \cdot \beta = -r$$

$$\frac{b}{r} = (\alpha + 0)(\beta + 0) \rightarrow \frac{1}{r} + \frac{1}{r}(\alpha + \beta) + \frac{\alpha \cdot \beta}{-r} = \frac{b}{r} \rightarrow -\frac{a}{r}$$

$$a m^2 - a n - b = 0$$

$$r\alpha\beta^2 + r\alpha^2 - r\alpha\beta = \frac{1/r}{r_0}$$

$$\div r_0, r\beta^2 + \alpha^2 - \beta = \frac{1/r}{r_0}$$

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

$$= 1/r_0$$

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$$1 + \frac{rb}{a} = \frac{1/r}{r_0} \rightarrow \frac{r}{r_0} + \frac{rb}{a} = \frac{1}{r_0}$$

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$$\frac{b}{a} = -\frac{1}{r_0}$$

$$\sqrt{a^2 - r(-b)(a)} \rightarrow \sqrt{a^2 + rab} \rightarrow$$

$$b = -\frac{a}{r_0}$$

$$rab = -\frac{ar^2}{r_0}$$

$$rab = -\frac{ar^2}{a}$$

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

$$a^2 - (r_0 a + 1)m + b = 0$$

$$a^2 - 10a + b = 0$$

$$\sqrt{100 - 4b} = 2$$

$$\beta - \beta' = ?$$

رنگ بکنی

$$a \text{ و } a+r \rightarrow \text{فردتاری}$$

$$100 + 4b = 4 \rightarrow 4b = -96$$

$$b = -24$$

$$\rightarrow a^2 + 1 + a - 4a = a^2 + 1 - 3a \rightarrow \sqrt{a^2 - 2a + 1} = 2$$

$$\rightarrow a^2 - 2a + 1 = 4 \rightarrow a^2 - 2a - 3 = 0 \quad (a-3)(a+1) \rightarrow a = 3$$

$$p = 3$$

$$|3-2|=1$$

$$p' = +24$$

$$a^2 + p^2 \text{ و } \beta^2 \text{ و } m^2 + n - 1 - m^2 = 0 \text{ و } \beta, a \text{ و } (a$$

$$s^2 - 2p \rightarrow 1 - 2(-1 - m^2) \rightarrow 1 + 2 + 2m^2 \rightarrow 2m^2 + 3$$

$$\Delta = 0 - 4(2)(3) = -24$$

$$\frac{24}{4} = 3$$

$$1 = \frac{a}{b}$$

$$m(-0.04) \quad A(2.04) \quad (10$$

$$a^2 + p^2 = a$$

$$p = 1$$

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$$a^r + b^r = 0 \rightarrow \sum r p = 0$$

(10)

$$a n^r + b m + c = y \rightarrow a n^r + b m + c = r a m + s b + c$$

$$b = r a$$

$$b = r a$$

$$\frac{-A}{r a} = 1$$

$$\frac{-b}{r a} = -1$$

$$\frac{b^r - r a c}{r a} = -1 \rightarrow r a^r - r a c = -r a \quad \underline{a = 1}$$

$$\rightarrow y = \underline{a n^r + r a m + a + 1}$$

$$s^r - r p = r - r \left(\frac{a+1}{a} \right) = 0$$

$$-r \left(\frac{a+1}{a} \right) = 1 \rightarrow \frac{a+1}{a} = -\frac{1}{r} \quad a = -\frac{r}{r} \quad \underline{c = -\frac{1}{r}}$$