

① $\frac{-b}{pa} = -1 \Rightarrow pa = b$ 2.100

$$\left. \begin{aligned} 1 &= 9a + 4a + c \\ 9 &= a - 4a + c \end{aligned} \right\} \begin{aligned} -1 &= 14a \Rightarrow a = -\frac{1}{14} \end{aligned}$$

~~$a = -\frac{1}{14} \Rightarrow b = -\frac{1}{2} \Rightarrow c = \frac{1}{2} \Rightarrow y = -\frac{1}{14}x^2 - \frac{1}{2}x + \frac{1}{2}$~~

② $px^2 + mx + (m+4) = 0$ $a=p, b=m, c=m+4$ 1.100

$\Delta \geq 0 \Rightarrow m^2 - 4(p)(m+4) \geq 0 \Rightarrow m^2 - 4pm - 16p \geq 0$

$\Rightarrow (m - 12)(m + 2) \geq 0 \Rightarrow m \leq -2, m \geq 12$ +2 -12

$\Rightarrow m \in (-\infty, -2] \cup [12, +\infty)$

$p - p > 0 \Rightarrow p = \frac{c}{a} = \frac{m+4}{p} > 0 \Rightarrow m+4 > 0 \Rightarrow m > -4$

$p - 5 > 0 \Rightarrow \frac{b}{a} = \frac{m}{p} > 0 \Rightarrow -m > 0 \Rightarrow m < 0$

$m \leq -2, m \geq 12$ (-4, -2)

$$\left. \begin{aligned} m &\leq -2 \\ m &\geq 12 \\ m &> -4 \\ m &< 0 \end{aligned} \right\} \Rightarrow m \in (-4, -2]$$

③ $px^2 + x(pm-1) + (p-m) = 0$ $a=p, b=pm-1, c=p-m$

$x_1 + x_2 = \frac{-b}{pa} = \frac{-(pm-1)}{p} \Rightarrow x_1 + x_2 = \frac{1-pm}{p}$ $x_1 x_2 = \frac{c}{a} = \frac{p-m}{p}$

$\Rightarrow x_1 + x_2 = \frac{1}{x_1 x_2} \Rightarrow \frac{1-pm}{p} = \frac{1}{\frac{p-m}{p}} \Rightarrow \frac{1-pm}{p} = \frac{p}{p-m}$

$\Rightarrow (1-pm)(p-m) = p^2 \Rightarrow -pm + pm^2 + p - m = p^2 \Rightarrow pm^2 - pm - p^2 + p = 0$

$\Rightarrow m = \frac{p \pm \sqrt{p^2 + 4(p^2 - p)}}{2p} = \frac{p \pm \sqrt{5p^2 - 4p}}{2p}$ $m = \frac{p}{p} = 1$ $m = -1$

$\Rightarrow \Delta = (pm-1)^2 - 4p(p-m) = p^2m^2 - 2pm + 1 - 4p^2 + 4pm = p^2m^2 + 2pm - 3p^2$

$\Rightarrow m = \frac{p}{p} = 1$ $m = -1$

$\Rightarrow m = 1$ $m = -1$

$\Rightarrow m = 1$ $m = -1$

Genobar $\Rightarrow m = \frac{p}{p}$

$$x^p - x - \Sigma = 0 \rightarrow x_1 + x_p = 1, x_1 x_p = -\Sigma$$

$$y_1 = x_1^p + \frac{1}{x_1}, y_p = x_p^p + \frac{1}{x_p} \rightarrow y^p - Sy + P = 0$$

$$\rightarrow S = (x_1^p + \frac{1}{x_1}) + (x_p^p + \frac{1}{x_p}) = (x_1^p + x_p^p) + (\frac{1}{x_1} + \frac{1}{x_p})$$

$$= (x_1 + x_p)^p - px_1 x_p (x_1 + x_p) = 1^p - \Sigma(1) = 1^p$$

$$\Rightarrow S = 1^p - \frac{1}{\Sigma} = \frac{\Delta 1}{\Sigma}$$

$$\rightarrow P = (x_1^p + \frac{1}{x_1})(x_p^p + \frac{1}{x_p}) = x_1^p x_p^p + x_1^p \times \frac{1}{x_p} + x_p^p \times \frac{1}{x_1} + \frac{1}{x_1 x_p}$$

$$\Rightarrow P = (x_1 x_p)^p + (x_1^p x_p + x_p^p x_1) + \frac{1}{x_1 x_p} \Rightarrow (1 - \Sigma) + 1 + \frac{1}{\Sigma} = \frac{-\Sigma + 1}{\Sigma}$$

$$\Rightarrow y^p - \frac{\Delta 1}{\Sigma} y - \frac{-\Sigma + 1}{\Sigma} = 0 \Rightarrow \Sigma y^p - \Delta 1 y - \Sigma + 1 = 0$$

$$x_1 + x_p = ?$$

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

$$x \sqrt[p]{x} - \sqrt[p]{x^p} + 1 - \frac{1}{\sqrt[p]{x^p}} + \sqrt[p]{x^p} - r = r \sqrt[p]{x^p}$$

$$\left((x - r - \frac{1}{x}) = r \right) x \quad x^p - r x - 1 = r x \rightarrow x^p - \Sigma x - 1 = 0$$

$$x_1 + x_p = -\frac{b}{a} = \Sigma$$

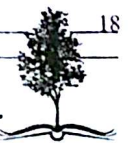
$$\left(\sqrt[p]{x^p} + \frac{1}{\sqrt[p]{x^p}} + 1 \right) (\sqrt[p]{x^p} - 1) = r \sqrt[p]{x^p}$$

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

$$x^p - 1 = r x \rightarrow x^p - r x - 1 = 0$$

$$x_1 + x_p = -\frac{b}{a} = \Sigma$$

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$$n_1 = r, n_2 = 3r$$

$$n_1, n_2 = \frac{\Sigma}{p} \Rightarrow 4r = \frac{\Sigma}{p} \Rightarrow r = \frac{\Sigma}{4p}$$

$$n_1 + n_2 = \Sigma r = \frac{b}{a} \xrightarrow{b=-9} \frac{a}{p} \Rightarrow \Sigma r = \frac{a}{p} \Rightarrow a = 12r$$

$$r = \frac{p}{4} \rightarrow a = 1, r = -\frac{p}{2} \rightarrow a = -1, |1 - (-1)| = 12$$

$$y = a n^r + (r+a)n \xrightarrow{\text{...}} \text{...}$$

$$n_1 < y < n_2 \cdot \frac{a+r}{a} < \frac{a+r}{a} < \frac{a+r}{a} \cdot (a+r) > \cdot a = \frac{a}{p} \cdot \frac{a+r}{a} = \frac{a+r}{p}$$

$$\frac{a}{p} < a < \frac{a+r}{p}$$

$$1$$

$$n_1^r - r n + b, n_2^r + r n - 1$$

$$n_2 = (-1 - r + b) \Rightarrow \frac{r}{p} - 1 \Rightarrow 1 - r - r - 1$$

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

$$ab = 1$$

$$r a t + a t - 4 = 0 \rightarrow r(t + \frac{1}{r})^2 - a(t + \frac{1}{r}) + b = 0$$

$$\rightarrow r t^2 + r(t + \frac{1}{r}) - a(t + \frac{1}{r}) + b = 0 \rightarrow r a = r, a = 1$$

$$\rightarrow r a = r, a = 1$$

$$1 - \frac{1}{p} + b = -4 \Rightarrow b = -9$$

$$\left[\frac{ab}{2} \right] = \left[\frac{-9}{2} \right] = \left[\frac{-9}{2} \right] = -2$$

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① $\sum n = -\sum m \rightarrow n_2 = -m_1$

$$m^2 - 4m + 4 = 0 \rightarrow m = 2 \rightarrow m_2 = 2 \rightarrow n^2 + 4n - 1 = 0$$

$$\rightarrow (n+2)(n-1) = 0 \quad -2, 1 \quad n^2 + 4n + 8 = 0 \rightarrow (n+2)(n+4) = 0$$

$$|2 - (-1)| = 3$$

