

$$y = a(x-1)^v + y$$

$$y = a(x+1)^v + a$$

$$a(x+1)^v + a = 1 \quad a = \frac{-1}{v}$$

فصل اول

$$\Delta > 0 \quad S = \frac{-b}{a} = \frac{-m}{v} > 0 \Rightarrow m < 0$$

$$P = \frac{m+4}{v} > 0 \Rightarrow m > -4$$

$$\Delta = m^2 - 4(v)(m+4)$$

$$m^2 - 4m - 16 > 0$$

$$(m-12)(m+4) > 0$$

$$m > 12 \quad m < -4$$

$$-4 < m < 12$$

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

$$S = \frac{-b}{a} = \frac{-2m+1}{1}$$

$$P = \frac{c}{a} = \frac{2-m}{1}$$

$$S = \frac{1}{P}$$

$$\frac{-2m+1}{1} = \frac{1}{2-m}$$

$$2m^2 + 2 - 2m = 1$$

$$m = -1 \quad m = \frac{1}{2}$$

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$$x^2 - x - 4 = 0$$

$$S = 1$$

$$P = -4$$

$$x_1^3 + x_2^3 + \frac{x_1 + x_2}{x_1 x_2} = 1 - 3(-4) - \frac{1}{-4} = \frac{13}{4}$$

$$x_1^3 + x_2^3 + a_1^2 + x_2^2 + \frac{S^3 - 3SP + \frac{S}{P}}{x_1 x_2}$$

$$x_1^3 + x_2^3 = x^2 - 5x + 4$$

$$x^2 - \frac{41}{4}x - \frac{221}{4} = 0 \quad \times 4 \quad 4x^2 - 41x - 221 = 0$$

$$(\sqrt[3]{x^2} + \frac{1}{\sqrt[3]{x^2}} + 1)(\sqrt[3]{x^2} - 1) = \sqrt[3]{20} \Rightarrow \left(\frac{\sqrt[3]{x^2} + 1 + \sqrt[3]{x^2}}{\sqrt[3]{x^2}} \right) (\sqrt[3]{x^2} - 1) = \sqrt[3]{20}$$

$$\frac{(\sqrt[3]{x^2})^3 - 1^3}{\sqrt[3]{x^2}} = \sqrt[3]{20} \Rightarrow 2x^2 - 1 = \sqrt[3]{20}$$

$$x^2 - 4(-1) = 1 > 0$$

$$x_1 + x_2 = -\frac{-2}{1} = 2$$

$$\alpha \times \frac{\alpha}{w} = \frac{e}{w}$$

$$\alpha = \pm r$$

$$1+1=2$$

$$\alpha = r \quad 11-r\alpha + e$$

$$\alpha = 1$$

$$\alpha = r \quad (1+r\alpha + e = a = -1)$$

$$\text{① } a > 0 \quad I \quad \frac{w+ra}{a} < 0 \rightarrow w+ra < 0 \rightarrow ra < -w \rightarrow a < \frac{-w}{r}$$

$$\text{② } -\frac{w+ra}{a}$$

$$I \cap II = \emptyset$$

$$\frac{r}{-1} = \frac{-\alpha}{1} \quad \alpha = r$$

$$y = x^r + rx - r = 1 \rightarrow x^r + rx - w = 0$$

$$x = 1$$

$$rx = -w$$

$$y = -(x-1)(x+w) + 1 = -x^r - rx + e \quad (b=e) \quad e = r = 1$$

$$\alpha \neq \alpha' + \frac{1}{r}$$

$$r(\alpha' + \frac{1}{r}) - a(\alpha' + \frac{1}{r}) + b = ra x^r + ax - y$$

$$ra x^r + r\alpha + \frac{1}{r} - a\alpha - \frac{a}{r} + b = ra x^r + ax - y \rightarrow r\alpha^r + (r-a)\alpha' + \frac{1}{r} - \frac{a}{r} + b = ra x^r + ax - y$$

$$ra = r$$

$$a = 1$$

$$\frac{1}{r} - \frac{1}{r} + b = -y$$

$$b = -y$$

$$\left[\frac{ab}{e} \right] = \frac{-y}{e} = -r$$

$$F(x) = -em \quad x = -m$$

$$x^r + yx + m = x^r + rx - w$$

$$(-m)^r + y(-m) + m = 0 \rightarrow m^r - am = 0$$

$$m(m-a) = 0$$

$$m = a$$

$$x^r + yx + a$$

$$(x+1)(x+a)$$

$$\downarrow \quad \downarrow$$

$$-1 \quad -a$$

$$x^r + rx - 1 = 0$$

$$(x+1)(x-w)$$

$$\downarrow \quad \downarrow$$

$$-1 \quad w$$

$$w+1 = e$$