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$$y = (a-1)n^r + m + r \quad n=r$$

$$\frac{-b}{ra} = r$$

$$\frac{-1}{r(a-1)} = r$$

$$ra - r = -1$$

$$ra = r \quad a = \frac{r}{r}$$

$$0 = -\frac{1}{r} n^r + m + r \rightarrow m = \frac{-b \pm \sqrt{\Delta}}{ra}$$

$$= -1 \pm \frac{\sqrt{1 - 4(-\frac{1}{r})r}}{ra}$$

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

$$\frac{1}{r} = -r = m_1$$

$$\frac{-r}{r} = 9 = m_2$$

$$f(m) = mn^r - an + m$$

$$m < 0$$

$$\Delta > 0 \rightarrow b^2 - 4ac > 0$$

$$ra - rm^r > 0$$

$$ra > \varepsilon m^r$$

$$\frac{ra}{r} > m > -\frac{a}{r} \leftarrow \frac{ra}{\varepsilon} > m^r$$

$$\textcircled{1} \text{ و } \textcircled{2} \rightarrow \boxed{\frac{a}{r} < m < 0}$$

$$S = \frac{r - \sqrt{a}}{r} + \frac{r + \sqrt{a}}{r} = \frac{9}{r} = r$$

$$p = \frac{(r - \sqrt{a})(r + \sqrt{a})}{a} = \frac{9 - a}{a} = \frac{r}{a}$$

$$n^r - Sm + p \rightarrow n^r - rm + \frac{\varepsilon}{a} = y$$

$$\hookrightarrow 4m^r - 11m + \varepsilon = y$$

$$rm^r - 11m + m + r = 0$$

$$r\alpha^r + \beta^r = r \rightarrow r\alpha^r + (\varepsilon - \alpha)^r = r$$

$$\alpha + \beta = r \rightarrow \beta = \varepsilon - \alpha$$

$$r\alpha^r + 11 + \alpha^r - 11\alpha = r$$

$$\alpha\beta = \frac{m+r}{r} = r \times 1 = r$$

$$r\alpha^r - 11\alpha + \varepsilon = 0$$

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

$$m + r = 9 \quad \boxed{m = \varepsilon}$$

$$\hookrightarrow \alpha = 1 \rightarrow \beta = r$$

S(r, 9)

$$y = an^r + bn + c$$

$$\frac{-b}{ra} = r$$

$$\varepsilon a = -b$$

$$b = -\varepsilon a$$

$$y = an^r - \varepsilon an + a$$

$$(1, 9)$$

$$\varepsilon a - 11a + a = 9 \quad -\varepsilon a = 2 \quad a = -1$$

$$y = -n^r + \varepsilon m + a$$

$$\rightarrow$$

$$n^r + \varepsilon m - a \rightarrow (m+a)(m-1)$$

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

$$\frac{-1}{-1} = -1$$

$$\boxed{m \in (-1, a)}$$

$$a\alpha^r - v\alpha + 4\beta = 0$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = 2$$

$$\alpha + \beta = \frac{v}{\alpha} \quad \beta > 0$$

$$\alpha\beta = \frac{4\beta}{\alpha} \rightarrow \beta \neq 0$$

$$\alpha^r = 4 \rightarrow \alpha = \pm 2$$

$$\alpha = -2 \rightarrow -2 + \beta = \frac{v}{-2} \rightarrow \beta = \frac{v}{-4}$$

$$\beta = \frac{v}{-4}$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = 2$$

$$\frac{1}{-2} + \frac{1}{\frac{v}{-4}} = \frac{1}{-2} - \frac{4}{v} = 2$$

$$\frac{1}{-2} - \frac{4}{v} = 2$$

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$$n^r + m\alpha - r m = 0$$

$$\alpha^r - m\beta = 1$$

$$r m - m\alpha - m\alpha = 1 \rightarrow r m - m(\alpha + \beta) = 1 \rightarrow m^r + r m - 1 = 0$$

$$(m+1)(m-1) = 0$$

$$m = 1$$

$$m = -1$$

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$$\alpha^r = r m - m\alpha$$

$$r m - m\alpha - m\alpha = 1 \rightarrow r m - m(\alpha + \beta) = 1 \rightarrow m^r + r m - 1 = 0$$

$$(m+1)(m-1) = 0$$

$$m = 1$$

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$$m = -1$$

$$\alpha + \beta = -m = -(-1) = 1$$

$$\alpha\beta = -r m = -1$$

$$\Delta > 0 \rightarrow m^r - r(-r m) > 0$$

$$m^r + 1 > 0$$

$$m(m+1) > 0$$

$$\frac{-1 \pm \sqrt{1-4}}{2} = \frac{-1 \pm \sqrt{-3}}{2}$$

$$m = 1$$

$$m = -1$$

$$m = 1$$

$$f(m) = m\alpha^r + r\alpha + \frac{m}{r} + v$$

$$\frac{-\Delta}{\epsilon a} = 1$$

$$r\alpha = -(b^r - \epsilon a c)$$

$$r(m) = -(14 - r(m) \frac{m+1}{r})$$

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$$\rightarrow r m = -14 + r m^r + r m$$

$$0 = r m^r - r m - 14 \rightarrow m^r - r m - 14 = 0$$

$$(m-1)(m+1) = 0$$

$$m = 1$$

$$m = -1$$

$$m = 1$$

$$m = -1$$

$$m = 1$$

$$m = -1$$

$$y = a\alpha^r + b\alpha + c$$

$$n_0 = \frac{-b}{r a} = r \rightarrow \epsilon a = -b$$

$$b = -\epsilon a$$

$$y = -\frac{1}{r} \alpha^r + r m + \epsilon$$

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$$y = -\frac{1}{r} \alpha^r + r m + \epsilon$$

$$y = a\alpha^r - \epsilon a m + \epsilon$$

$$\epsilon a - 14a + \epsilon = 4$$

$$-2a = r \rightarrow a = -\frac{1}{r}$$

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

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$$\frac{1}{r} \alpha^r + r m + \epsilon = 0$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\beta + \alpha}{\alpha\beta} = \frac{-\frac{1}{r}}{\frac{1}{r}} = -1$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = -1$$

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$$n^r - (r a + \epsilon) \alpha + (r a^r + 4 a + r) = 0$$

$$m = r$$

$$r - 14a - 1 + r a^r + 4a + r = 0$$

$$r a^r - r a - 1 = 0$$

$$a^r - r a - r = 0$$

$$(a-r)(a+1) = 0$$

$$a = r$$

$$a = -1$$

$$a = r$$

$$a = 1 \rightarrow n^r - 14a - 1 + r a^r + 4a + r = 0$$

$$(m-1)(m-2) = 0$$

$$m = 1$$

$$m = 2$$

$$m = 1$$

$$m = 2$$

$$m = 1$$

$$m = 2$$

$$m = 1$$

$$a = -\frac{1}{r} \rightarrow n^r - \frac{1}{r} m + \frac{r}{r} = 0$$

$$\frac{1}{r} + \frac{1}{\beta} = \frac{\beta + \alpha}{\alpha\beta} = \frac{-\frac{1}{r}}{\frac{1}{r}} = -1$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = -1$$

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