

$$\begin{aligned} r\alpha &= \frac{\alpha}{r} \\ r\alpha^r &= \frac{r}{r} \end{aligned} \quad \left. \begin{aligned} \alpha &= \frac{r}{r} \Rightarrow \alpha_1 = 1 \\ \alpha &= \pm \frac{r}{r} \Rightarrow \alpha_2 = -1 \end{aligned} \right\} \Rightarrow \alpha_1 - \alpha_2 = 1 - (-1) = 2$$

$$\begin{aligned} \sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} &= \Delta \quad \alpha\beta = \frac{1}{c^2} \\ \frac{1}{\alpha} + \frac{1}{\beta} + \frac{r}{\sqrt{\alpha\beta}} &= r\Delta \\ \frac{\alpha+\beta}{\alpha\beta} + \frac{r}{\sqrt{\alpha\beta}} &= r\Delta \quad 34(\alpha+\beta) + 1r = r\Delta \quad 34\left(\frac{r+1r}{34}\right) = 1c \quad m = -1 \end{aligned}$$

$$rx^r + kx^r - 9x - r = r(x-\alpha)(x-\beta)(x-\delta)$$

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

$$k = r(-\alpha\beta - \delta)$$

$$k = -c$$

$$\begin{aligned} \frac{\Delta}{r}(\alpha^r + \beta^r) + \frac{1}{r}(\alpha^r - \beta^r) &= 12\sqrt{r} + 1\Delta \quad S = a \\ \frac{\Delta}{r}(34 - 1a) + \frac{1}{r}(\alpha - \beta)(-1) &= 12\sqrt{r} + 1\Delta \quad |\alpha - \beta| = \frac{\sqrt{c^2 - 4a}}{1} \\ 9_0 - \Delta a + 3\sqrt{c^2 - 4a} &= 12\sqrt{r} + 1\Delta \quad \alpha - \beta = -\sqrt{c^2 - 4a} \end{aligned}$$

$$a \in \mathbb{Q} \Rightarrow 9_0 - \Delta a = 1\Delta \Rightarrow \boxed{a=1}$$

$$c^2 - 4a = c^2 \Rightarrow a=1$$

$$x^r - Vx - \Delta = 0 \quad x^r < \frac{V+\sqrt{49}}{r} \quad S=0 \quad P = \frac{-V-\sqrt{49}}{r}$$

$$rp^r - 3sP + rS = r\left(\frac{49+49+14\sqrt{49}}{r^2}\right) + 0 + 0 = 59 + V\sqrt{49}$$

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

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

$$\alpha\beta = \frac{-4}{r} = -r$$

$$\left(\alpha + \frac{1}{r}\right)\left(\beta + \frac{1}{r}\right) = \alpha\beta + \frac{1}{r}(\alpha+\beta) + \frac{1}{r^2} = -c + \frac{1}{r} \times \left(-\frac{1}{r}\right) + \frac{1}{r^2} = -r = \frac{b}{r} \Rightarrow b = -r$$

$$\left[\frac{-4}{r}\right] = -r$$

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

$$\alpha = 1 - \beta$$

$$|\alpha - \beta| = \frac{r}{\sqrt{a}} = \frac{r\sqrt{a}}{a}$$

$$r\beta^r + (1-\beta)^r - \beta = \frac{14}{r_0}$$

$$c\beta^r - c\beta + \frac{c}{r_0} = 0$$

$$\beta^r - \beta + \frac{1}{r_0} = 0 \quad \beta = \frac{1 \pm \sqrt{1 - \frac{1}{r_0}}}{r} < \frac{1}{r} + \frac{1}{r_0} \quad \alpha = \frac{1}{r} - \frac{1}{r_0}$$

$$\frac{1}{r} - \frac{1}{r_0} \quad \alpha = \frac{1}{r} + \frac{1}{r_0}$$

$$\alpha(\alpha+r) = a$$

$$\alpha + \alpha + r = a + 1$$

$$\alpha^r + r\alpha - r\alpha = 1$$

$$\alpha \leq \frac{1}{-1.536}$$

$$\alpha = 1 \Rightarrow a = r$$

$$\alpha + r = r \Rightarrow \alpha = 1 = c$$

$$\beta + \beta + r = 10$$

$$\beta = r$$

$$\beta + r = r \quad \left. \begin{array}{l} \beta = r \\ \beta + r = r \end{array} \right\} r \times r = r^2$$

$$r^2 - c = r^2$$

-1

$$\alpha^r + \beta^r = (\alpha + \beta)^r - r\alpha\beta = (-1)^r + r + r^2 = r^2 + r \geq r^2$$

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$$x_{\text{ext}} = \frac{-a + c}{r} = -1$$

$$y_{\text{ext}} = 1$$

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

$$y = ax^r + rax + a + 1$$

$$\alpha^r + \beta^r = a$$

$$\left(-\frac{ra}{a}\right)^r - r \times \left(\frac{a+1}{a}\right) = a$$

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

$$-\frac{r}{a} = r \quad a = -\frac{r}{c} \Rightarrow y = -\frac{r}{c}x^r - \frac{r}{c}x + \frac{1}{c}$$

$$x=0 \Rightarrow y = \frac{1}{c}$$

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