

$$\alpha^2 = 4\beta \text{ و } \alpha\beta = \frac{1}{4} \quad \alpha = 2 \text{ و } \frac{1}{2} = 4\alpha = 2$$

$$4\beta \times \beta = 4\beta^2 = \frac{1}{4} \quad \beta^2 = \frac{1}{16} \rightarrow \beta = \pm \frac{1}{4}$$

$$2 + \frac{1}{4} = \frac{9}{4} \rightarrow \frac{1}{4} = \frac{9}{4} \Rightarrow \alpha = 3$$

$$\beta = -\frac{1}{4} \rightarrow \alpha = -2 \quad -2 - \frac{1}{4} = \frac{9}{4} \quad \alpha = -2$$

$$1 - (-1) = 2 \quad 19$$

$$\sqrt{\frac{1}{a}} + \sqrt{\frac{1}{b}} = \omega \rightarrow \frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = \frac{\sqrt{b} + \sqrt{a}}{\sqrt{ab}} = \omega$$

$$\frac{\sqrt{a} + \sqrt{b}}{\frac{1}{\omega}} = \omega \rightarrow \sqrt{a} + \sqrt{b} = \frac{\omega}{\omega} \quad \alpha\beta = \frac{1}{16} \quad \alpha + \beta = \frac{m+k}{16}$$

$$\alpha + \beta + \sqrt{\frac{1}{16}} = \frac{\omega}{16} \rightarrow \frac{m+k}{16} = \frac{\omega - 1}{16} = \frac{1}{16} \rightarrow m+k = 1$$

$$mn^2 + kn + r = 0$$

$$-n^2 + kn + r = 0$$

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

$$(\alpha + \beta)^2 = 1 \rightarrow \alpha^2 + \beta^2 + 2\alpha\beta = 1 \rightarrow \alpha^2 + \beta^2 = \omega \quad \alpha = 2 \quad \beta = 1$$

$$r(-1)^k + k + 9 - r = 0 \rightarrow k = -r$$

$$k = -r$$

$$r + 1 + k - 1 - r = 0 \rightarrow k = -r$$

$$r\alpha^2 + r\beta^2 = r, \omega\alpha^2 + r, \omega\beta^2 = 0, \omega\alpha^2 = 0, \omega\beta^2$$

$$\frac{\omega}{r}(\alpha^2 + \beta^2) + \frac{1}{r}(\alpha^2 - \beta^2) \quad \alpha^2 + \beta^2 = 39 - 2\alpha \quad \alpha^2 - \beta^2 = (\alpha + \beta)(\alpha - \beta) = -9 \left(\frac{-\sqrt{14} - \sqrt{6}}{4} \right)$$

$$\frac{\omega}{r}(\alpha^2 + \beta^2) + \frac{1}{r}(\alpha^2 - \beta^2) \rightarrow 90 - 9\alpha + 3\sqrt{14 - 6\alpha} = 12\sqrt{2 + 11\omega}$$

$$90 - 9\alpha = 11\omega \rightarrow \alpha = 1 \quad 3\sqrt{14 - 6\alpha} = 12\sqrt{2} \rightarrow \alpha = 1$$

$$n^2 = 6 \rightarrow t^2 - \sqrt{t} - \omega = 0$$

$$t = \frac{\sqrt{49} \pm \sqrt{49}}{2} \rightarrow n = \pm \sqrt{\frac{49 \pm 49}{2}}$$

$$S = 0, p = \frac{-V - \sqrt{49}}{2}$$

$$r_p^2 - r_p s + r_s = 0 \rightarrow r_p^2 = r_s \quad \frac{49 + 49 + 14\sqrt{49}}{2} = 99 + 14\sqrt{49}$$

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

$$\alpha + \frac{1}{r} + \beta + \frac{1}{r} = \frac{a}{r} \Rightarrow \alpha + \beta + \frac{2}{r} = \frac{a}{r}$$

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

$$\alpha + \beta = \frac{a-r}{r} \rightarrow a=1 \quad \left(\frac{1}{r} + a\right)\left(\frac{1}{r} + \beta\right) = \frac{1}{r} + (a+\beta)\frac{1}{r} + \alpha\beta = \frac{b}{r}$$

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

$$\left[\frac{ab}{r}\right] = \left[\frac{1(-r)}{r}\right] = \left[-\frac{r}{r}\right] = -r$$

$$a\alpha^r - a\alpha - b = 0$$

$$S = 1$$

$$a\beta^r - a\beta - b = 0 \rightarrow \beta^r - \beta = \frac{b}{a}$$

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

$$r_0\beta^r + r_0\alpha^r - r_0\beta = r_0\beta^r + r_0\alpha^r + r_0\beta^r - r_0\beta$$

$$r_0(s^r - r_p) + r_0(\beta^r - \beta) \rightarrow r_0\left(1 + \frac{r_0b}{a}\right) + r_0\left(\frac{b}{a}\right) = r_0 + r_0\frac{b}{a} + r_0\frac{b}{a} = 1V$$

$$\frac{b}{a} = -\frac{1}{r_0} \rightarrow b = -\frac{1}{r_0}a \rightarrow \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{a^2 + 4r_0b}}{|a|} \rightarrow \frac{|a|\sqrt{\frac{r_0}{a}}}{|a|} = \sqrt{\frac{r_0}{a}} = \frac{r}{\sqrt{a}} = \frac{r\sqrt{a}}{a}$$

$$\left. \begin{aligned} a &= (k+1) \rightarrow (k-1) \rightarrow F_k^r - 1 \\ a+1 &= F_k \rightarrow a = F_k - 1 \end{aligned} \right\} \begin{aligned} &\rightarrow F_k^r - F_k = 0 \\ &F_k(F_k - 1) = 0 \end{aligned}$$

$$k = 1, 0 \rightarrow a = r$$

$$b = F_k^r + F_k^r$$

$$r_{a+1} = F_k^r + r$$

$$10 \pm F_k^r + r \rightarrow k^r = r \rightarrow b = rF$$

$$|a-b| = |r-rF| = r(1)$$

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

$$\alpha^r + \beta^r = S^r - r_p$$

$$1 - r(-m^r - 1) = r + r_m^r$$

$$m^r = 0 \rightarrow r + r_m^r = r$$

$$y = a(n+1)^r + 1 \rightarrow 0 = a(n^r + (r+1)n) + 1 \rightarrow 0 = an^r + a(r+1)n + 1$$

$$\alpha + \beta = -\frac{r_0}{a} = -r \quad \alpha\beta = \frac{a+1}{a} \quad \alpha^r + \beta^r + r\alpha\beta = r \rightarrow \alpha\beta = -\frac{1}{r}$$

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

$$y = -\frac{r}{r}(n+1)^r + 1$$

$$n=0 \rightarrow y = -\frac{r}{r} + 1 = \frac{1}{r}$$