

$$\mu_n^T - a n^{\frac{1}{2}} = 0 \quad B = \mu_\alpha \quad \rightarrow \rho = \frac{\Sigma}{\mu} \approx \frac{\mu_\alpha \mu_\beta}{\mu} \propto \frac{1}{\mu} \frac{\mu}{\mu}$$

$$\xi a = \frac{a}{\pi} \rightarrow 15a = a \rightarrow a \neq 1, 2, \dots, 14 \quad \text{Ans } 15$$

$$\omega_g m^* - (m+1\epsilon) \hbar \omega = \frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} - a$$

$$\hookrightarrow p = \frac{1}{\omega_g} \quad S = \frac{m+1\epsilon}{\omega_g}$$

$$\frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} \cdot \alpha \rightarrow \alpha \sqrt{\alpha\beta} = \sqrt{\alpha} + \sqrt{\beta} \xrightarrow{\text{Vollst.}} \sqrt{\alpha\beta} = \alpha + \beta + \sqrt{\alpha\beta}$$

$$m = \frac{m+1}{\mu_0} + \frac{1}{\mu} \rightarrow m = -1 \rightarrow -x^\mu + \mu_{\alpha\beta} x^\alpha x^\beta = 0 \rightarrow P = \frac{c}{a} x^\mu$$

$$\varepsilon n^r + k n^r - q n - r = 0 \quad \alpha + \beta = 1 \quad \alpha\beta = -\gamma$$

$$\begin{aligned} (n^r - n - 1)(\varepsilon n + m) &= \varepsilon n^r + k n^r - q n - r \rightarrow \varepsilon n^r - \varepsilon n^r - \wedge n + m n^r - m n - k n \\ &\rightarrow \varepsilon n^r + (m - \varepsilon) n^r - (\wedge + m) n - r m = \varepsilon n^r + k n^r - q n - r \\ &\rightarrow k = m - \varepsilon \quad -\wedge - m = -q \rightarrow \underline{m = 1} \rightarrow \underline{k = -r} \end{aligned}$$

$$\begin{aligned} m^2 + 4m + 9 &= 0 & \alpha < \beta < 0 & & r\alpha^2 + r\beta^2 - \sqrt{4-a} < 0 \\ 0 = 4 - \varepsilon a &= \frac{-4 \pm \sqrt{16 - \varepsilon a}}{\varepsilon} \rightarrow & -r + \sqrt{4-a} &\rightarrow \beta & \\ & & -r - \sqrt{4-a} &\rightarrow \alpha \end{aligned}$$

$$\begin{aligned} \psi_\alpha^\gamma &= \alpha \Sigma - \psi a + 1 \wedge \sqrt{9-a} \\ \psi_\beta^\gamma &= \psi 4 - \psi a - 1 \wedge \sqrt{9-a} \end{aligned}$$

$$\begin{aligned} 9 + 4\sqrt{9-a} - 2a &= 14\sqrt{4} + 12 \\ 9 - 14\sqrt{4} &= 2a - 4\sqrt{9-a} \\ &\rightarrow \boxed{a=1} \end{aligned}$$

$$n^x - v n^y - \partial = 0 \rightarrow t^x - vt - \partial = 0$$

$$\rightarrow \frac{V_{th} \sqrt{u_a}}{50 \text{ k}\Omega}$$

$$\rightarrow r_1 = \frac{V + \sqrt{4a}}{r}$$

$$n_5 = \sqrt{\frac{V - \sqrt{99}}{4}}$$

$$p_1 = \frac{-V + \sqrt{4a}}{4}$$

$$P^r = P\left(\frac{-V + \sqrt{49}}{r}\right) = P\left(\frac{59 + 49 + 18\sqrt{49}}{2}\right)$$

$$r n^r - a n + b = 0 \rightarrow \begin{cases} s = \frac{a}{r} \\ p = \frac{b}{r} \end{cases}$$

$$r a n^r + a n - 4 \begin{cases} s = -\frac{1}{r} \rightarrow \alpha + \beta = \frac{1}{r} = \frac{a}{r} \Rightarrow a = 1 \\ p = -4 \rightarrow b = -4 \end{cases} \quad (5)$$

$$\rightarrow \left[\frac{ab}{\varepsilon} \right] = (-4)$$

$$\alpha = 1 - \beta \quad \varepsilon \circ \beta^r + r \circ (1 - \beta)^r - r \circ \beta = 1 \Rightarrow r \circ \beta \frac{(\beta - 1)}{-\alpha} = -1$$

$$\rightarrow \alpha \beta = \frac{1}{r} = -\frac{b}{a}$$

$$\rightarrow a = -r \circ b \rightarrow a n^r - a n - b = 0$$

$$\rightarrow -r \circ b n^r + r \circ b n - b = 0 \rightarrow |\alpha - \beta| = \frac{\sqrt{a}}{|a|} = \frac{r}{\sqrt{a}} \quad (5)$$

$$n^r - (a+1)n + a = 0 \rightarrow \alpha, \alpha + r \rightarrow s = a+1 = r\alpha + r$$

$$n^r - (4a+1)n + b = 0 \rightarrow \beta, \beta + r \quad p = a = a^r + r a^{r-1} \Rightarrow a+1 = a^r + r a^{r-1} + 1$$

$$\begin{cases} \alpha^r + r\alpha + 1 = r\alpha + r \rightarrow \alpha^r = 1 \rightarrow \alpha = \pm 1 \quad \frac{r\alpha}{\alpha^r} \quad \alpha = 1 \\ n^r - 1 \circ n + b = 0 \rightarrow s = 1 = r\beta + r \quad \alpha = r \\ \rightarrow \beta = 1 \rightarrow b = \varepsilon \times 4 = 4\varepsilon \end{cases} \quad (5)$$

$$\text{and } \rightarrow r\varepsilon - 4 = (r)$$

$$n^r + n - 1 - m^r = 0$$

$$\hookrightarrow s = -1$$

$$p = -1 - m^r$$

$$\alpha^r + \beta^r = s^r - r p$$

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

$$1 + r + r m^r \rightarrow r m^r + r$$

$$= \frac{-b}{ra} = 0 \rightarrow \min = (r)$$

$$y = a(n+1)^{r+1} \rightarrow \Delta = \sqrt{-\varepsilon a} = r \sqrt{-a}$$

$$a n^r + r a n + a + 1$$

$$-1 + \sqrt{\frac{-1}{a}}$$

$$\rightarrow \frac{-ra \pm r \sqrt{-a}}{r} \div \frac{-a \pm \sqrt{-a}}{a} < -1 - \sqrt{\frac{-1}{a}}$$

$$\alpha^r + \beta^r = s^r - r p = r \left(1 - \frac{1}{a}\right) = 2 \rightarrow \alpha = -\frac{r}{r}$$

$$y = -\frac{r}{r} n^r - \frac{\varepsilon}{r} n + \frac{1}{r} \xrightarrow{n=0} y = \frac{1}{r} \quad (5)$$