

$$\frac{L^r - 1}{a} > 0 \Rightarrow a < 0$$

$$\left. \begin{array}{l} L(r+a) \\ r - r a^r \end{array} \right\} \frac{r a^r \ln a}{r} < 0 \rightarrow L < 0$$

$$\frac{r(1-a^r)}{L^r}$$

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

$$L a + C u = \frac{L}{a} + \frac{C}{L} \rightarrow \frac{L}{-r L} + \frac{-r}{L}$$

$$-r - r = \boxed{-13/4}$$

$$1 + L \delta_0 = r L \left(\frac{q_0 + \delta_0}{r} \right) \times a \left(\frac{q_0 - \delta_0}{r} \right)$$

$$= r L v_0 C u r_0 = r a^r v_0$$

$$L \delta_0 + L \delta_0 = r L \left(\frac{\delta_0 + 1_0}{r} \right) \times a \left(\frac{\delta_0 - 1_0}{r} \right)$$

$$r L^r C u r_0 = C u r_0$$

$$\frac{\sqrt{(a' r_0)^r}}{C u r_0} = \boxed{\sqrt{r}}$$

$$1 - L^r a = a^r \delta - a^r \delta = a 1_0$$

$$r a^r - 1 = C u r_0 - L^r 1_0 = C u r_0$$

$$\frac{1 - \tan^r}{1 - \tan^r} = C u \varepsilon_0$$

$$\Rightarrow \frac{L^r C u r_0 C u \varepsilon_0}{\frac{L^r}{L^r} \times \frac{L^r}{L^r}} \times \frac{C u 1_0}{\frac{L^r}{L^r}} = \boxed{\frac{1}{\sqrt{2}} \cot 1^\circ}$$

دوازدهم مسأله / محدوده تغییرات

$$T = \frac{\pi}{1-r} = \frac{\pi}{r} \quad -1$$

$$B \rightarrow \alpha_{10} \rightarrow B_2 \text{ با } \pi_{1/2} = 1$$

$$\rightarrow \frac{AC \times B}{r} \Rightarrow \frac{\pi}{r} \times 1 \times \frac{1}{r} = \frac{\pi}{r^2}$$

$$x^r - L^r - 1/2 C u r_0 \rightarrow \varepsilon/q - r/4 L^r - 1/2 (1 - L^r)^r$$

$$\varepsilon/q - r/4 L^r - 1/2 + 1/2 L^r \alpha_{10}$$

$$\Rightarrow 1/2 L^r \alpha - r/4 L^r + 1/4 \alpha_{10}$$

$$L^r = \frac{r \varepsilon \pm 1 \wedge}{1 \wedge} \rightarrow L^r = \sqrt[4]{\varepsilon \bar{O} \bar{O} \varepsilon}$$

$$L^r = 1/4 \checkmark$$

$$L^r + C^r = 1 \rightarrow 1 - 1/q, C^r \rightarrow C^r = 1/q$$

$$1 + \delta a^r = 1/a^r \rightarrow 1 \times 9 \wedge = \boxed{9 \wedge}$$

$$dy = \frac{L}{-a} \rightarrow dy^r = \frac{L}{-a} \rightarrow L = -r a$$

$$L^r + C^r = 1 \rightarrow 9 a^r + C^r = 1 \rightarrow C^r = 1/9$$

$$\bar{O} \bar{O} \varepsilon \rightarrow \frac{\sqrt{1_0}}{1_0} \rightarrow L = \frac{\sqrt{1_0}}{1_0}$$

$$\bar{O} \bar{O} \rightarrow \bar{r} \bar{r} \bar{r} \bar{r}$$

$$L - C = \frac{r}{\sqrt{1_0}} - \left(-\frac{1}{\sqrt{1_0}} \right) = \boxed{\frac{\varepsilon \sqrt{1_0}}{1_0}}$$

$$L^r + 1 - L^r \cdot \varepsilon/\omega \rightarrow L^r - L^r + 1/\omega = 0$$

$$(1 - C^r)^r + C^r = \varepsilon/\omega \rightarrow C^r - C^r + 1/\omega = 0$$

$$\Rightarrow L^r - L^r = C^r - C^r \rightarrow L^r + L^r = L^r + C^r$$

$$\Rightarrow \boxed{\varepsilon/\omega}$$

$$\mathcal{L}_\alpha \cdot \mathcal{P} \mathcal{L}_\alpha$$

-9

$$a^r + (\underbrace{r - \mathcal{P} a}_{\mathcal{L}^r})^r \approx 10 a^r - 1 \mathcal{P} a^r - \mathcal{P}$$

$$a^r \approx \frac{1 + \mathcal{L}^r a}{r} \approx r a^r - 1 - \mathcal{L}^r a$$

$$\approx 10 a^r - \mathcal{L} - \mathcal{L} a^r$$

$$\Rightarrow 10 a^r - 1 \mathcal{P} a^r - \mathcal{L} - \mathcal{P} + (-\mathcal{L}) \approx \boxed{-1}$$

$$\mathcal{L}_\alpha \times \mathcal{L}_b = 1/r (\mathcal{L}_\alpha (\alpha - b) - \mathcal{L}_b (\alpha + b)) \quad -10$$

$$\Rightarrow \mathcal{L}_B \mathcal{L}_A = 1/r (\mathcal{L}_B \mathcal{L}_A - \mathcal{L}_A) - \mathcal{L}_B (\mathcal{L}_B + \mathcal{L}_A)$$

$$\mathcal{L}_\alpha \times \mathcal{L}_b = 1/r (\mathcal{L}_\alpha (\alpha + b) + \mathcal{L}_b (\alpha - b))$$

$$\approx \mathcal{L}_A \mathcal{L}_B \times \mathcal{L}_A \mathcal{L}_B = 1/r (\mathcal{L}_\alpha A + \mathcal{L}_b \mathcal{L}_\alpha)$$

$$A + B + \mathcal{L}_\alpha = 1 \mathcal{L}_\alpha \rightarrow 1/r \mathcal{L}_\alpha (1 \mathcal{L}_\alpha - (\mathcal{P} \mathcal{L}_\alpha + \mathcal{L}_b))$$

$$\approx 1/r (-\mathcal{L}_\alpha \mathcal{P} \mathcal{L}_\alpha + A + \mathcal{L}_b A)$$

$$-1/r \mathcal{L}_\alpha \mathcal{P} \mathcal{L}_\alpha + A + 1/r \mathcal{L}_\alpha A = 1/r \mathcal{L}_\alpha A + 1/r$$

$$\hookrightarrow \mathcal{L}_\alpha \mathcal{P} \mathcal{L}_\alpha + A = 1$$

$$\hookrightarrow \mathcal{P} \mathcal{L}_\alpha + A = 1 \mathcal{L}_\alpha$$

$$B, \mathcal{P} \mathcal{L}_\alpha \rightarrow A = 1 \mathcal{L}_\alpha - 1 \mathcal{P} \mathcal{L}_\alpha \approx \boxed{109^\circ}$$