

$$\tan 135^\circ + \sin 135^\circ \cdot \cos 57.5^\circ = -1 + \left(-\frac{\sqrt{2}}{2} \times -\frac{\sqrt{2}}{2}\right) = -1 + \frac{2}{4} = -\frac{1}{2} \checkmark$$

$$\frac{V_{TE}}{V} \Rightarrow \omega_0^\circ \quad \frac{I_{TE}}{I} \Rightarrow \tau_0^\circ \quad \cos \frac{I_{TE}}{I} \Rightarrow \gamma f_0^\circ \quad (c)$$

$$\tan 120^\circ \times \sin 30^\circ + \cos 120^\circ = \left(-\frac{\sqrt{3}}{2} \times -\frac{1}{2}\right) - \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = 0 \quad \checkmark$$

$$\cot = f \Rightarrow \frac{\cos}{\sin} = f \quad \frac{u_x(f) - 1}{f + 1} = \frac{11}{\omega} \quad \checkmark$$

$$\sin^r + \cos^r = 1 \rightarrow r \cos^r + \cos^r = 1 \quad \cos^r = \frac{1}{\omega} \quad \sqrt{\cos^r} = \pm \frac{1}{\sqrt{\omega}}$$

ناحیه سوم $\cos$ منفی است پس جواب $-\frac{1}{\sqrt{4}}$ است.

$$\frac{11\pi}{f} + \alpha \Rightarrow \frac{7\pi}{f} + \frac{4\pi}{f} + \alpha \quad \cos\left(\frac{7\pi}{f} + \alpha\right) = \pm \sin \alpha \quad (\text{اذا})$$

$$\sin \alpha = \frac{\sqrt{r}}{10} \rightarrow \sin \alpha = \frac{\sqrt{r}}{10}$$

$$\tan \alpha + 1 = \frac{1}{\cos^2 \alpha} \quad 1 + \frac{1}{18} = \frac{1}{\cos^2 \alpha} \quad \cos \alpha = \frac{V}{V_0} = \frac{v\sqrt{r}}{10} \quad \sin \alpha = \frac{v}{10}$$

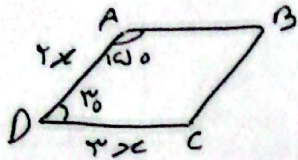
$$\sin\left(\frac{\omega}{f} + \alpha\right) = \left(-\frac{\sqrt{r}}{r}\right) \cos \alpha + \left(-\frac{\sqrt{r}}{r}\right) \sin \alpha = -\frac{\sqrt{r}}{r} (\sin \alpha + \cos \alpha) = -\frac{f}{c}$$

$$r \sin^2 x + \cos^2 x = \frac{r}{r} \quad \sin^2 x + \cos^2 x = 1$$

$$\sin r = \frac{1}{r} \quad \cos r = \frac{r}{r}$$

$$\tan r = \frac{\sin r}{\cos r} \Rightarrow \frac{1}{\frac{r}{r}} = \frac{1}{r} \checkmark$$

⑦



$$\frac{1}{Y} \times \frac{1}{X} \times \Gamma_X \times X = \omega_N$$

$$\mu_{\text{eff}} = \omega \mu$$

$$x = \mu \sqrt{t}$$

$$\underline{b_{\infty}} = r_x r_x + r_x r_x = r\sqrt{r} \times r\sqrt{r} + r\sqrt{r} \times r\sqrt{r} = r_0 \sqrt{r} \quad \checkmark$$

$$S = \frac{1}{r} \times r \times \sin \alpha = f, \omega$$

$$r \sin \alpha = f, \omega \Rightarrow \sin \alpha = \frac{f, \omega}{r}$$

$$\frac{\sqrt{r}}{r} \begin{cases} \max = 40^\circ \\ \min = 120^\circ \end{cases} \quad \frac{120}{40} = 3 \quad \checkmark$$

$$S_{ABC} - S_{ADE} = \frac{1}{2} VW \quad \frac{1}{r} \sin A \times AB \cdot AC = \frac{1}{r} \sin A \times AD \cdot AE$$

$$\frac{1}{r} \times \sin A \times \omega \times V = \frac{r\omega}{r} \sin A \quad / \quad \frac{1}{r} \times \sin A \times V \times r = 1 \text{ ms}^{-1}$$

$$\frac{V_w}{r} - \frac{r\omega}{r} \sin A = \frac{V}{r} \sin A = \frac{1}{r} V_w \quad \sin A = \frac{1, V_w}{\frac{V}{r}} = \frac{1}{r}$$

$A = 90^\circ$ $\tan 90^\circ = \frac{1}{0}$

$$\frac{\frac{1}{f} \sin \beta \times AB \cdot CB}{\frac{1}{f} \sin \beta \cdot BM \cdot BN} = r \quad \frac{AB \times \omega NC}{BM \times r NC} = r$$

$$\frac{BM}{AM} = \frac{BM}{0,1BM} = > \frac{1}{10} = \frac{3}{4} \quad \checkmark$$

$$-\frac{1}{\cot \alpha} = -\tan \alpha \quad -\frac{\tan \alpha}{1} = \frac{|\sin \alpha|}{\cos \alpha} \rightarrow \cos + \sin -$$

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{|\cos \alpha|}$$

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$- \leftarrow \sin$ ✓

$$\frac{1}{|\cos n|} - \frac{\sin n}{\cos n} = \frac{1 + \sin n}{|\cos n|} \rightarrow \frac{-\sin n}{|\cos n|} = \frac{\sin n}{\cos n} \rightarrow \cos n < 0$$

الف) $\cos^2 \alpha = 1 - \sin^2 \alpha \rightarrow \cos^2 \alpha = \frac{91}{100} \xrightarrow{\text{بجذور}} \cos \alpha = -\frac{\sqrt{91}}{10}$ (ف)

$$\cos\left(\frac{11\pi}{f} + \alpha\right) = \cos\left(\pi + \left(-\frac{\pi}{f} + \alpha\right)\right) = -\cos\left(\alpha - \frac{\pi}{f}\right)$$

$$= -\left(\cos \alpha \cos \frac{\pi}{f} + \sin \alpha \sin \frac{\pi}{f}\right) = -\left(-\frac{\sqrt{91}}{10} \times \frac{\sqrt{f}}{f} + \frac{\sqrt{f}}{10} \times \frac{\sqrt{f}}{f}\right) = \frac{f}{5}$$