

$$(الف) \frac{P_1}{11.0} = \frac{P_{ad}}{\pi} \Rightarrow P_{ad} = \frac{P_1 \pi}{11.0} = \frac{1.7\pi}{11.0}$$

$$(ب) \frac{P_2}{11.0} = \frac{P_{ad}}{\pi} \Rightarrow P_{ad} = \frac{1.7\pi}{11.0} = \frac{1.7\pi}{11.0}$$

$$(ج) \frac{\omega \pi}{11} = \frac{P}{11.0} \Rightarrow V_{ad}^{\circ}$$

$$(د) \frac{P_1}{11} = \frac{P}{11.0} \Rightarrow 11.0^{\circ}$$

$$\frac{1.7\pi}{9} = \frac{P}{11} \Rightarrow 11.0^{\circ}$$

$$\frac{a\pi}{11} = \frac{P}{11} \Rightarrow 11.0^{\circ}$$

$$11.0^{\circ} \Rightarrow 11.0^{\circ} = 8/10 \Rightarrow a = 11$$

$$(الف) \left(\frac{1}{1} \times \frac{1}{1}\right) - \left(\frac{1}{1} \times \frac{1}{1}\right) - 1 + 1 = 1$$

$$\frac{\left(\frac{1}{1}\right)^2 + (1)^2 + \left(\frac{1}{1}\right)^2}{\left(\frac{1}{1}\right)^2 - \frac{1}{1}} = \frac{1 + 1 + 1}{1 - 1} \Rightarrow \frac{1.7\pi}{4}$$

$$-\left(\frac{1}{1}\right)\left(\frac{1}{1}\right) + \left(\frac{1}{1}\right)\left(\frac{1}{1}\right) = \sin^2 \theta \rightarrow 1$$

$$\frac{1}{1} + \frac{1}{1} = \sin^2 \theta \Rightarrow \sin \theta = \frac{1}{1} \Rightarrow a = 11.0^{\circ}$$

$$\Rightarrow \tan \theta = \frac{1}{1}$$

$$\frac{1 \times \frac{1}{1} \times \left(1 - \left(\frac{1}{1}\right)^2\right)}{1 - \left(\frac{1}{1}\right)^2} = \frac{1.7\pi}{11.0} \Rightarrow 1.7\pi = \tan^2 \theta$$

$$\Rightarrow a = \frac{1.7\pi}{11.0}$$

$$\begin{aligned} \tan \alpha = \omega &\Rightarrow \frac{\sin \alpha}{\cos \alpha} = \omega \Rightarrow \cos \alpha = k \Rightarrow \sin \alpha = \omega k \\ &\Rightarrow \sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow 1 + k^2 = 1 \Rightarrow k = \pm \frac{1}{\sqrt{1+\omega^2}} \\ &\Rightarrow \sin \alpha = \pm \frac{\omega}{\sqrt{1+\omega^2}} = \cos \alpha = \pm \frac{1}{\sqrt{1+\omega^2}} \Rightarrow \\ &\frac{\sin(\pm \frac{\omega}{\sqrt{1+\omega^2}}) - (\pm \frac{1}{\sqrt{1+\omega^2}})}{(\pm \frac{\omega}{\sqrt{1+\omega^2}}) - \cos(\pm \frac{1}{\sqrt{1+\omega^2}})} = \frac{1}{\omega} \end{aligned}$$

$$\begin{aligned} \frac{1}{\omega} &= 1 \Rightarrow \cos \alpha = \sqrt{1 - \sin^2 \alpha} = \sqrt{1 - \frac{\omega^2}{1+\omega^2}} = \frac{1}{\sqrt{1+\omega^2}} \\ &\Rightarrow 1 \times 0.8 = 1 \Rightarrow \sqrt{1+\omega^2} = 1 \Rightarrow \sqrt{1+\omega^2} = 1 \Rightarrow \omega = 0 \end{aligned}$$

$$\begin{aligned} \text{BC} &= \frac{1}{\sqrt{3}} \Rightarrow \cos \alpha = \frac{1}{\sqrt{3}} \\ &\Rightarrow \sin \alpha = \frac{1}{\sqrt{3}} \Rightarrow \cos \alpha = \frac{1}{\sqrt{3}} \\ &\Rightarrow \frac{1}{\sqrt{3}} = \frac{1}{\sqrt{3}} \Rightarrow \cos \alpha = \frac{1}{\sqrt{3}} \Rightarrow \sin \alpha = \frac{1}{\sqrt{3}} \end{aligned}$$

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$$\begin{aligned} \tan \alpha = \frac{\sin \alpha}{\cos \alpha} &\Rightarrow \left. \begin{array}{l} \sin \alpha = 1 \\ \cos \alpha = \sqrt{1 - \sin^2 \alpha} = \sqrt{1 - 1} = 0 \end{array} \right\} \Rightarrow \text{وگر} = \sqrt{1^2 + 0^2} = 1 \\ \sin \alpha = \frac{1}{\sqrt{10}} &\Rightarrow \frac{1}{\sqrt{10}} \end{aligned}$$

محور در ناحیه سوم است پس منفی می شود