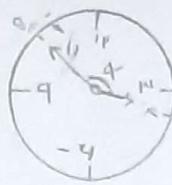


۱۷، ۵



کیمیای برادی - ۱۹

۱- الف ۲
 $۳ \times ۳ = ۹$
 خنده ۵۴ - ۲

۹۰° + ۷۳° = ۱۱۷°
 ← عقرب ساعت روی این است
 ← از ساعت ۱

۳۲۴ - ۵۴
 ۹° - ۱'

۵۴ × ۵ = ۷۳°
 ← حاصلی اضافی
 ۹۰' - ۳°
 ۱' - ۵۰°

$$۳۲۴ - ۱۱۷ = ۲۰۷° \quad ۳۹۰ - ۱۵۱ = ۱۵۳°$$

$$\alpha = |۵۰۵ \times ۵۴ - ۳۰ \times ۳| = ۲۰۷$$

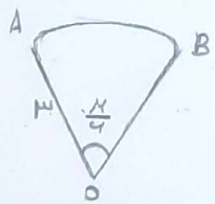
$$۳۹۰ - ۲۰۷ = ۱۵۳$$



۹:۱۸' الف ۲

۱۸۰ + ۹ = ۱۸۹
 $۱۸۹ - ۱۰۸ = ۸۱$
 $۳۹۰ - ۸۱ = ۳۰۹$
 $۹ \times ۳ = ۱۸$
 $۱۸ \times ۵ = ۹$
 $۱۸ \times ۹ = ۱۰۸$

$$\alpha = |۵۰۵ \times ۱۸ - ۹ \times ۳| = \frac{۸۱}{۳۰۹}$$



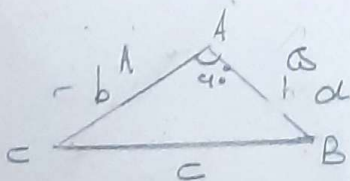
۳- الف ۲

$$\frac{\alpha}{\mu} R^p = \frac{\frac{\mu}{\alpha}}{\frac{\mu}{1}} = \frac{\mu}{1\mu} \times \frac{\mu}{\mu}$$

$$\frac{\mu}{1\mu} \times \frac{\mu}{\mu} = \frac{\mu\mu}{\mu}$$

$$\alpha R + \mu R = \frac{\mu}{\alpha} \times \mu + \mu \times \mu$$

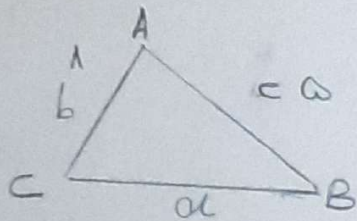
$$\frac{\mu}{\mu} + \mu$$



$$S = \frac{1}{\mu} ab \sin \alpha$$

$$\frac{1}{\mu} \times 1 \times 5 \times \sin 90^\circ$$

$$\mu \times \frac{\sqrt{3}}{\mu} = 1.0 \sqrt{3}$$



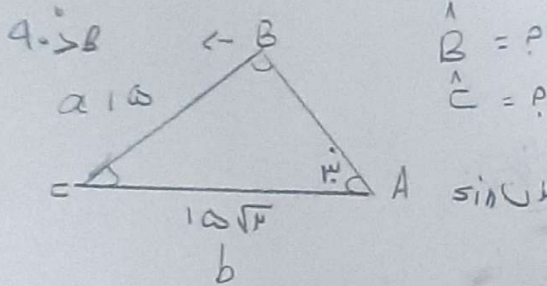
$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$Fq = 1^2 + \omega^2 - 2 \times 1 \times \omega \times \cos 45^\circ$$

$$\alpha = 45^\circ$$

$$P = V + 1 + \omega = P_0 \rightarrow \underline{P = P_0}$$

$$B + C = 135^\circ \rightarrow A + B + C = 180^\circ \rightarrow A = 45^\circ$$



$$\sin 45^\circ = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\sin B = \frac{1}{\sqrt{2}} \rightarrow B = 45^\circ$$

$$C = 135^\circ = \frac{135\pi}{180} = \frac{3\pi}{4}$$

$$B < 90^\circ \rightarrow B = 45^\circ$$

$$\frac{-\tan \alpha + P \tan \alpha}{\tan(\pi - \alpha) + P \tan(\pi + \alpha)} = \frac{P \tan \alpha}{-P \tan \alpha} = -1$$

$$\frac{(-\tan \alpha) - (+\tan \alpha)}{(-\tan \alpha) - (+\tan \alpha)}$$

$$\tan \frac{\pi}{4} = a \rightarrow a = 1$$

$$\frac{P \tan 45^\circ + \tan 135^\circ}{P \tan 135^\circ - \tan 45^\circ}$$

$$\cot \frac{\pi}{4} = \frac{1}{a}$$

$$\frac{P \tan(90 + 135) + \tan(90 + 135)}{P \tan(180 - 135) - \tan(180 - 135)} = \frac{P \tan(\frac{\pi}{4} - \frac{\pi}{4}) + \tan(\frac{\pi}{4} + \frac{\pi}{4})}{P \tan(\pi - \frac{\pi}{4}) - \tan(\pi - \frac{\pi}{4})}$$

$$\frac{P \cot 135^\circ - \cot 135^\circ}{-P \cot 135^\circ - \cot 135^\circ} = \frac{1 \cot 135^\circ \times \tan 135^\circ}{-P \cot 135^\circ - 1}$$

$$\frac{\frac{1}{a} - \frac{1}{a}}{-\frac{1}{a} - \frac{1}{a}} = \frac{1}{-2/a} = -\frac{a}{2}$$

$$\frac{\sin x + \cos x}{\sin x - \cos x} + \frac{\sin x - \cos x}{\sin x + \cos x} = P$$

5

$$\tan x = 0$$

$$\frac{\sin^2 x + \cos^2 x + P \sin x \cos x + \sin^2 x + \cos^2 x - P \sin x \cos x}{\sin^2 x - \cos^2 x} =$$

$$\frac{\sin^2 x - \cos^2 x}{\sin^2 x - \cos^2 x}$$

$$\frac{P \sin^2 x + P \cos^2 x}{\sin^2 x - \cos^2 x} = \frac{P}{-\cos^2 x} = P - 4 \frac{P \cos^2 x}{P} = P$$

$$\cos^2 x = -\frac{P}{P}$$

$$\cos^2 x - \sin^2 x = -\frac{P}{P}$$

$$P \cos^2 x = -\frac{P}{P} + 1 \cos^2 x - 1 + \cos^2 x$$

$$P \cos^2 x = \frac{1}{P} - 4 \cos^2 x = \frac{1}{4}$$

$$\frac{1}{4} - \sin^2 x = \frac{P}{P} - 4 \sin^2 x = \frac{5}{4}$$

$$\tan^2 x = \frac{\frac{5}{4}}{\frac{1}{4}} = 5$$

5

$$\frac{-P + P \sin^2 x}{\sin^2 x - P \cos^2 x + 1} = P$$

$$\frac{\sin^2 x + P \cos^2 x - 1}{\sin^2 x + P \cos^2 x - 1}$$

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

$$\frac{P \sin^2 x - 1}{-\sin^2 x + P} = P - 4$$

$$\left(\frac{\frac{1P}{V}}{-\frac{1}{V}} \right) = \left(\frac{-1P}{4} \right)$$

$$\sin^2 x = \frac{1P}{V}$$

$$\cos^2 x = 1 - \frac{1P}{V} = -\frac{4}{V}$$

$$\leftarrow V \sin^2 x = 1P$$

$$P \sin^2 x + 1 \cos^2 x - \omega = 0$$

$$P \sin^2 x + P \cos^2 x + V \cos^2 x = \omega$$

$$V \cos^2 x - P \cos^2 x = \frac{P}{V}$$

$$P \sin^2 x - 1 = -P \sin^2 x + 1P$$

طرحین در سطح

$$\cos(P/P, \omega) = \cos^2\left(\frac{P}{P}\right) = \frac{1 + \cos \alpha}{P}$$

$$P/P = \frac{P}{P} \Rightarrow \alpha = 180^\circ \Rightarrow \cos 180^\circ = -\frac{\sqrt{P}}{P}$$

$$\cos^2(P/P, \omega) = \frac{1 + \frac{\sqrt{P}}{P}}{P} = \cos(P/P, \omega) = \frac{\sqrt{P/P}}{P}$$

5

$$\rightarrow \sin(4V/\omega)$$

$$\sin(4V/\omega) = \cos(4V/\omega) \rightarrow \frac{\sqrt{4} + \sqrt{4}}{4}$$

$$\sin^2(4V/\omega) = \frac{1 - \frac{\sqrt{4}}{4}}{4} \rightarrow \frac{\sqrt{4} + \sqrt{4}}{4}$$

$$\downarrow$$

$$\cos(4V/\omega) = -\frac{\sqrt{4}}{4}$$