

15.4, 1, 29

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الف) $2V^\circ = (\chi) \text{Rad}$ $\frac{2V}{1A_0} = \frac{\chi}{\pi}$ $\chi = \frac{2}{V_0} \pi$ (1)

ب) $1V^\circ = (\chi) \text{Rad}$ $\frac{1V}{1A_0} = \frac{\chi}{\pi}$ $\chi = \frac{1}{V_0} \pi$

ج) $\frac{5\pi}{11} \text{Rad} = (\chi)^\circ$ $\frac{\chi}{1A_0} = \frac{5\pi}{11}$ $\chi = 50^\circ$

د) $\frac{5\pi}{9} \text{Rad} = (\chi)^\circ$ $\frac{\chi}{1A_0} = \frac{5\pi}{9}$ $\chi = 100^\circ$

$\frac{5\pi}{11} = \frac{\chi}{1A_0}$ $\chi = 50^\circ$ $\frac{1V}{1A_0} = \frac{\chi}{1A_0}$ $\chi = 100^\circ$

$\frac{50}{1} a + \frac{100}{1} a + 1 \cdot a = 1A_0$ $\frac{150}{1} a = 1A_0$ $a = \frac{1}{150} A_0$

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

ب) $\frac{\frac{1}{1} + 1 + 1}{\frac{\sqrt{1}}{1} - \frac{\sqrt{1}}{1}} = \frac{3}{0}$ $\frac{3}{0} = \frac{11\sqrt{1}}{4}$

$\sin 1^\circ \cos 4^\circ + \cos 1^\circ \sin 4^\circ = \sin \theta$ $\sin \theta = \frac{\sqrt{1}}{1}$ $\theta = 45^\circ$
 $(-\frac{1}{1} \times \frac{1}{1}) + (\frac{\sqrt{1}}{1} \times \frac{\sqrt{1}}{1}) = \sin \theta$ $\tan \theta = \tan 45^\circ = 1$

$-\frac{1}{1} + \frac{1}{1} = \frac{1}{1} \sin \theta$ $\sin \theta = \frac{1}{1}$ $\sin \theta = \frac{1}{\sqrt{1}}$ $\theta = 45^\circ$

$$\frac{r \tan \theta^\circ (1 - \tan^2 \theta^\circ)}{(1 - \cot^2 \theta^\circ)^2} = \tan \theta$$

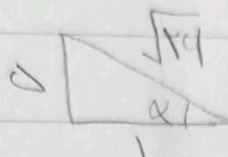
$$\frac{q_0}{11.0} = \frac{\text{Rad}}{\pi}$$

$$\theta = \frac{\pi}{\mu} \text{ rad}$$

$$\frac{r \times \frac{\sqrt{\mu}}{\mu} (1 - \frac{1}{\mu})}{(1 - \frac{1}{\mu})^2} = \frac{\frac{\sqrt{\mu}}{q}}{\frac{\mu}{q}} \cdot \sqrt{\mu} = \tan \theta \Rightarrow \theta = 45^\circ$$

$$\frac{\sin \theta}{\cos \theta} = \frac{1.60}{1.45}$$

$$\tan \theta = 1.10$$



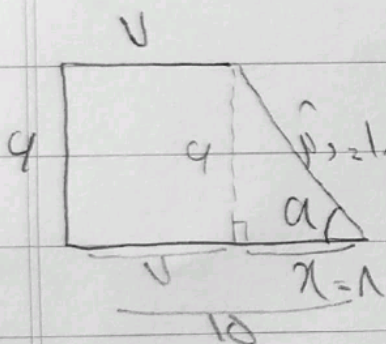
$$r + l = x$$

$$x = 1.4 \quad \mu = \sqrt{2.4}$$

$$\frac{\mu \sin \theta - \cos \theta}{\sin \theta - \mu \cos \theta} = \frac{1.6 \times \frac{1}{\sqrt{2.4}} - \frac{1}{\sqrt{2.4}}}{\frac{1}{\sqrt{2.4}} - 1.6 \times \frac{1}{\sqrt{2.4}}}$$

$$\frac{0.6}{\sqrt{2.4}} = \frac{1}{\sqrt{2.4}}$$

$$\frac{1.6}{\sqrt{2.4}} = \frac{1}{\sqrt{2.4}}$$



$$\sin \alpha = \frac{4}{\sqrt{17}}$$

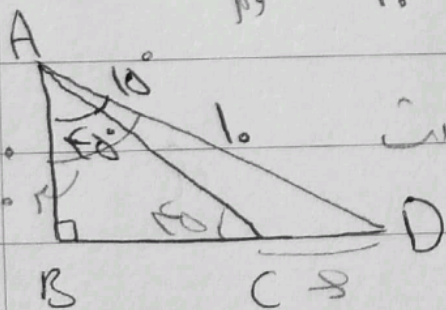
$$P_B = 4 + 10 + 1.0 + 1.0 = 16$$

$$l_0 - q^r = x^r$$

$$\sin \alpha = \frac{4}{\sqrt{17}} = \frac{4}{1.0}$$

$$\hat{p}_2 = 1.0$$

$$x^r = 4.4 \quad \mu = 1$$



$$\hat{p}_2 = \frac{\sqrt{\mu}}{r} \quad 4.4 \text{ N/m}^2$$

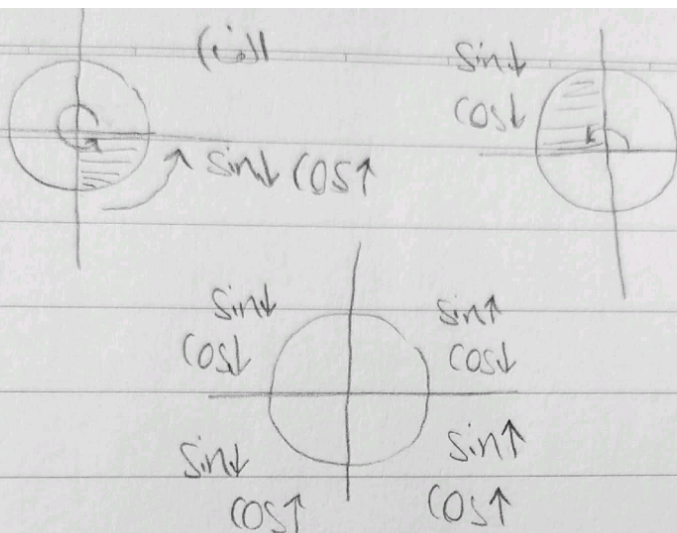
$$\overline{BD} = 0.4\sqrt{2}$$

$$\overline{AB}^r = l_0 - (0.4\sqrt{2})^r$$

$$\overline{DC} = \overline{BD} - \overline{BC} = 0.4\sqrt{2} - 0$$

$$\overline{AB}^r = 1.0 \Rightarrow \overline{AB} = 0, \overline{BC} = 0$$

نامية ج 1/2 الف
 نامية دوم (ب)



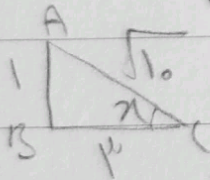
(9)

$$\sin x = \frac{\text{ج}}{\text{ب}} = \frac{1}{\sqrt{2}}$$

$$\cos x = \frac{\text{ب}}{\text{ب}} = \frac{1}{\sqrt{2}}$$

منه نعلم ان

$$\sin x = \frac{\text{ج}}{\text{ب}} = \frac{-1}{\sqrt{2}} = \frac{-\sqrt{2}}{2}$$



$$AC = \sqrt{2}$$

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