

15.4, 0.1, 29

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الف)  $2V^\circ = (\chi) \text{Rad}$   $\frac{2V}{1N_0} = \frac{\chi}{\pi}$   $\chi = \frac{2}{V_0} \pi$  (1)

ب)  $1V^\circ = (\chi) \text{Rad}$   $\frac{1V}{1N_0} = \frac{\chi}{\pi}$   $\chi = \frac{1}{V_0} \pi$

ج)  $\frac{5\pi}{11} \text{Rad} = (\chi)^\circ$   $\frac{\chi}{1N_0} = \frac{5\pi}{11\pi}$   $\chi = 50^\circ$

د)  $\frac{5\pi}{9} \text{Rad} = (\chi)^\circ$   $\frac{\chi}{1N_0} = \frac{5\pi}{9\pi}$   $\chi = 10^\circ$

$\frac{5\pi}{11} = \frac{\chi}{1N_0}$   $\chi = 50^\circ$   $\frac{1V}{1N_0} = \frac{\chi}{1N_0}$   $\chi = 10^\circ$

$\frac{50}{1} a + \frac{10}{1} a + 1 \cdot a = 1N_0$   $\frac{60}{1} a = 1N_0$   $(a = 1^\circ)$

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

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

$\sin 1^\circ \cos 4^\circ + \cos 1^\circ \sin 4^\circ = \sin \theta$   $\sin \theta = \frac{\sqrt{1}}{1}$   $\theta = 40^\circ$  (1)  
 $(-\frac{1}{1} \times \frac{1}{1}) + (\frac{\sqrt{1}}{1} \times \frac{\sqrt{1}}{1}) = \sin \theta$   $\tan \theta = \tan 40^\circ = 1$

$-\frac{1}{1} + \frac{1}{1} = \frac{1}{1} \sin \theta$   $\sin \theta = \frac{1}{1}$   $\Rightarrow \frac{1}{1} \sqrt{1} - \frac{1}{1} \times$

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

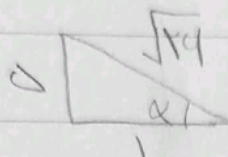
$$\frac{q_0}{11.0} = \frac{\text{Rad}}{\pi}$$

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

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

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

$$\tan \theta = 1.10$$



$$r_1 + r_2 = r$$

$$r_1 = 2q \quad r_2 = \sqrt{2}q$$

$$\frac{r \sin \theta - \cos \theta}{\sin \theta - r \cos \theta} = \frac{r \times \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}}}{\frac{1}{\sqrt{2}} - r \times \frac{1}{\sqrt{2}}}$$

$$\frac{1}{\sqrt{2}} - r \times \frac{1}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}}$$

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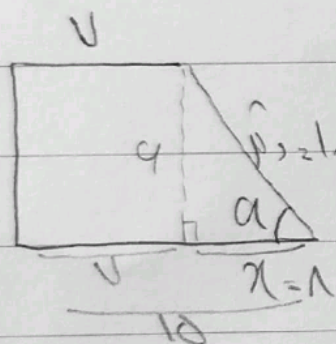
$$\frac{1}{\sqrt{2}}$$

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$$\sin \alpha = \frac{4}{10}$$

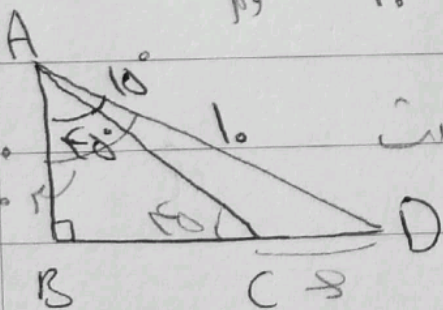
$$P_{\Delta} = 4 + 10 + 10 = 24$$

$$r_1 - r_2 = r$$

$$\sin \alpha = \frac{4}{10} = \frac{4}{10}$$

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

$$r_1 = 4f \quad r_2 = 1$$



$$\hat{p}_2 = \frac{\sqrt{\mu}}{r}$$

$$BD = 0\sqrt{f}$$

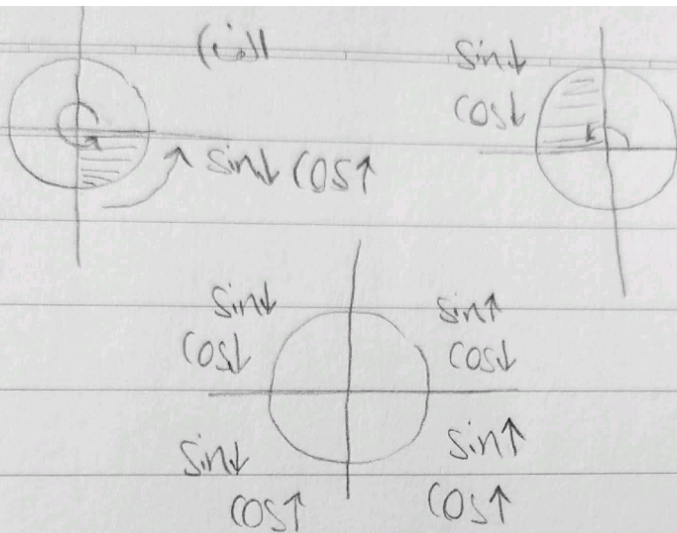
$$AB = 1.0 - (0\sqrt{f})^2$$

$$DC = BD - BC = 0\sqrt{f} - 0$$

$$AB = 1.0 \Rightarrow AB = 0, BC = 0$$



نامية ج 1/2 الف  
 نامية دوم (ب)



(9)

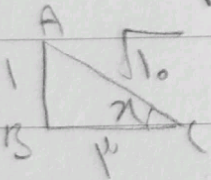
$$\sin x = \frac{\text{ج}}{\text{ب}}$$

$$\cos x = \frac{\text{ب}}{\text{ب}} = \frac{1}{\mu}$$

منه نعلم ان

$$\sin x = \frac{\text{ج}}{\text{ب}} = \frac{-1}{\sqrt{10}}$$

$$= \frac{-1}{\sqrt{10}} = \frac{-\sqrt{10}}{10}$$



$$AC = \sqrt{10}$$

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