

الناسير يادني

$$\textcircled{1} \frac{21 \times \pi}{110} = \frac{35\pi}{4}$$

$$\text{ج} \frac{110 \times 110}{14} = 750^\circ$$

$$\text{ب} \frac{125 \times \pi}{110} = \frac{25\pi}{34}$$

$$\text{د} \frac{e\pi}{9} \times \frac{110}{\pi} = 10^\circ$$

$$\textcircled{2} 125a$$

$$\frac{a}{100} = \frac{x}{34} \rightarrow x = 125a$$

$$10a, 125a, 225a \rightarrow 10a + 125a + 225a = 110$$

$$\frac{9\pi}{1} \times \frac{110}{\pi} = 225a \Rightarrow a = \frac{1}{10}$$

$$\textcircled{3} \text{الف} \frac{1}{2} \times \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{2} \times \frac{1}{2} - 1 + 2 = 1$$

$$\text{ب} \frac{3 + 1 + \frac{1}{2}}{\sqrt{3} - \frac{1}{2}} = \frac{\frac{7}{2}}{\frac{2\sqrt{3}-1}{2}} = \frac{7}{2\sqrt{3}-1} = \frac{15\sqrt{3}}{4}$$

$$\textcircled{4} -\frac{1}{2} \times \frac{1}{2} + \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} = \frac{1}{2} = \frac{1}{2} = \sin^2 \theta$$

$$\sin^2 \theta + \cos^2 \theta = 1 \Rightarrow \cos^2 \theta = \frac{1}{2}$$

$$\tan^2 \theta = 1 \Rightarrow \tan \theta = 1$$

$$\textcircled{a} \quad \frac{r \times \frac{\sqrt{r}}{r} \left(\frac{r}{r} \right)}{\left(\frac{r}{r} \right)^r} = \sqrt{r} = \tan \theta \rightarrow \tan \theta = \sqrt{r}$$

$$\rightarrow \theta = \frac{\pi}{\sqrt{r}}$$

$$\textcircled{c} \quad \tan^2 \theta + 1 = \frac{1}{\cos^2 \theta} \rightarrow \cos^2 \theta = \frac{1}{r^2} \rightarrow \cos \theta = \pm \frac{1}{\sqrt{r}}$$

$$\cos \theta = \frac{1}{\sqrt{r}}$$

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

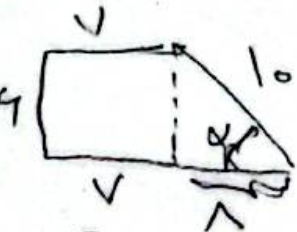
$$\sin \theta = \frac{1}{\sqrt{r}}$$

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

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

$$\frac{-\frac{1}{\sqrt{r}} + \frac{1}{\sqrt{r}}}{-\frac{1}{\sqrt{r}} + \frac{1}{\sqrt{r}}} = \frac{1}{r}$$

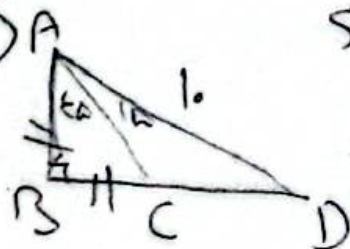
$$\textcircled{v} \quad \sin x = \frac{4}{10} = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{4}{10}$$



$$34 + x = 100 \rightarrow x = 66 \rightarrow \text{circled 66}$$

$$\rightarrow 10 + 4 + 10 + 4 = 38$$

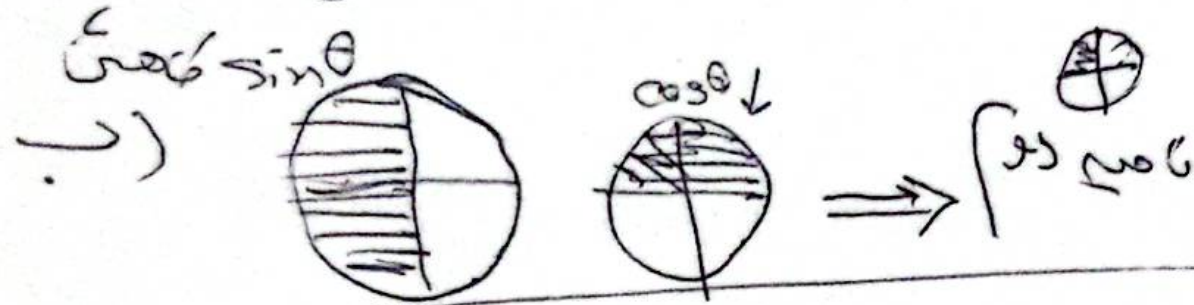
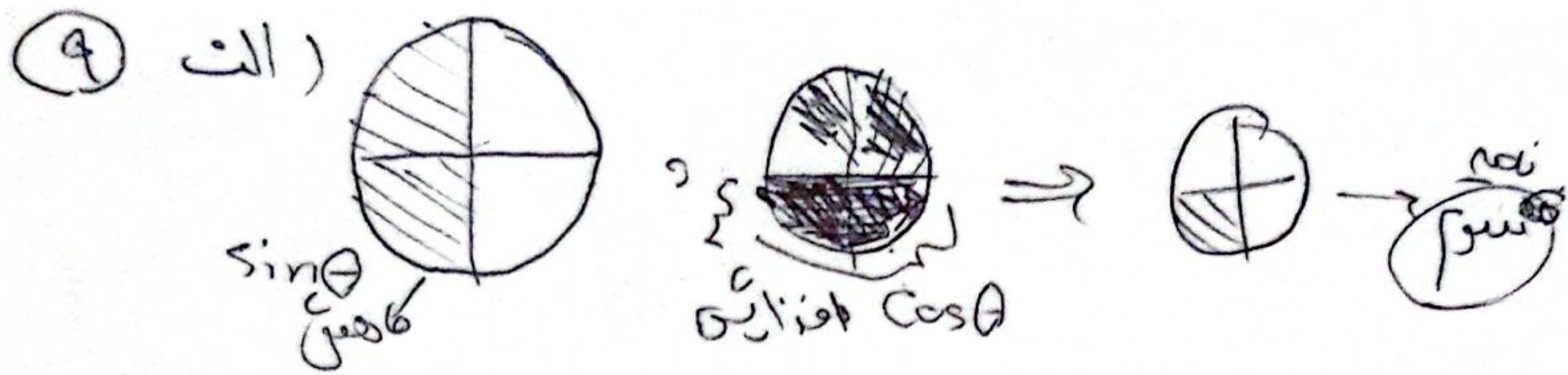
$$\textcircled{1} \quad \sin 45^\circ = \frac{\sqrt{2}}{2} = \frac{BD}{10} \rightarrow BD = 5\sqrt{2}$$

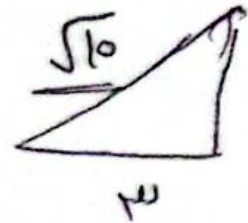


$$\triangle ABD: AB + (5\sqrt{2}) = 10$$

$$\Rightarrow AB = 5, AB = BC \Rightarrow BC = 5$$

$$BD - BC = CD \Rightarrow CD = 5\sqrt{2} - 5$$



6)  $\rightarrow \sin \theta = \pm \frac{1}{\sqrt{10}} \rightarrow -\frac{1}{\sqrt{10}} = \frac{-\sqrt{10}}{10}$

نفس سر