



٢. : نسوا ان تكتب

دهم دفتر ب

تسليمات

الف) $(\sin 135^\circ + \sin 45^\circ) (\cos 45^\circ - \cos 135^\circ) = \left(\frac{\sqrt{2}}{2}\right)^2 - \left(\frac{\sqrt{2}}{2}\right)^2 = \frac{1}{2} - \frac{1}{2} = 0$

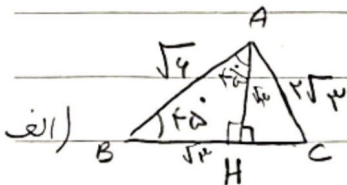
ب)

$\tan 45^\circ = \frac{-\frac{1}{\sqrt{2}}}{-\frac{\sqrt{2}}{2}} = \frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{2} = \frac{1}{2} \rightarrow \tan 45^\circ = \frac{1}{\sqrt{2}} \rightarrow 1 = \frac{1}{\sqrt{2}} \rightarrow \sqrt{2} = 1$

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

$\cos 45^\circ = \frac{\sqrt{2}}{2} \rightarrow \frac{2}{\sqrt{2}} = \sqrt{2}$

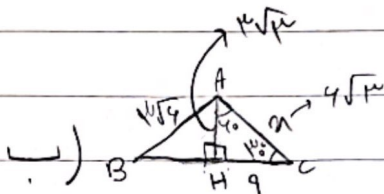
$\cos 135^\circ = -\frac{\sqrt{2}}{2} \rightarrow \frac{2}{\sqrt{2}} = \sqrt{2}$



$AH = \frac{\sqrt{2}}{2} \times \sqrt{2} = \frac{\sqrt{2}}{2} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

$(\sqrt{2})^2 + x^2 = (2\sqrt{2})^2$

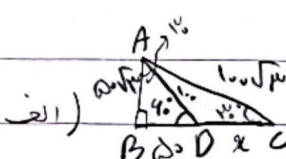
$2 + x^2 = 8 \rightarrow x^2 = 6 \rightarrow x = \pm\sqrt{6} \rightarrow \sqrt{6}$



$\frac{\sqrt{2}}{2} \times m = 9 \rightarrow m = 9 \times \frac{2}{\sqrt{2}} = \frac{18}{\sqrt{2}} = \frac{18\sqrt{2}}{2} = 9\sqrt{2}$

$\frac{1}{2} \times 4\sqrt{2} = 2\sqrt{2}$

$\sin B = \frac{2\sqrt{2}}{4\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}} = \frac{1}{1} = 1 \rightarrow 90^\circ$



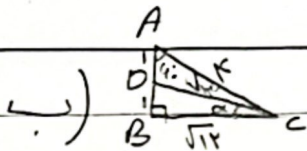
$\sin 45^\circ = \frac{\sqrt{2}}{2} \times a = a\sqrt{2}$

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

$\frac{a\sqrt{2}}{AC} = \frac{1}{2}$

$AC = 2a\sqrt{2}$

$(a\sqrt{2})^2 + x^2 = (10\sqrt{2})^2 \rightarrow x = \sqrt{100 - 2} = \sqrt{98} = 7\sqrt{2}$



$$\cos 40^\circ = \frac{1}{r} = \frac{1}{n} \rightarrow n = r$$

$$r^2 + n^2 = r^2 \rightarrow n = \sqrt{14 - 1} = \sqrt{13}$$

$$1^2 + (\sqrt{13})^2 = n^2$$

$$n = \sqrt{1 + 13} = \sqrt{14}$$

$$\sin \alpha = \frac{1}{\sqrt{13}} \times \frac{\sqrt{13}}{\sqrt{14}} = \frac{\sqrt{13}}{\sqrt{14}} \rightarrow \alpha = \dots$$



$$\frac{AB}{AC} = ?$$

$$\alpha = \frac{1}{r} \times 0 \rightarrow 0 = r_m$$

$$\frac{\sqrt{r}}{r} \times 0 = n \rightarrow 0 = n \times \frac{r}{\sqrt{r}} = \frac{r_m}{\sqrt{r}} \times \frac{\sqrt{r}}{\sqrt{r}} = \frac{r\sqrt{r}m}{r} = \sqrt{r}m$$

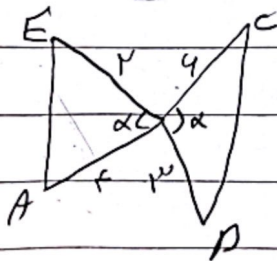
$$y^2 + n^2 = (\sqrt{r}m)^2$$

$$y = \sqrt{r_m^2 - n^2} = \sqrt{n^2} = n$$

$$n^2 + 0^2 = (r_m)^2$$

$$0 = \sqrt{r_m^2 - n^2} = \sqrt{r_m^2} = n\sqrt{r}$$

$$\frac{AB}{AC} = \frac{2(1 + \sqrt{r})}{\sqrt{r} \times} = \frac{(1 + \sqrt{r})}{\sqrt{r}} \times \frac{\sqrt{r}}{\sqrt{r}} = \frac{\sqrt{r} + \sqrt{r}}{r}$$

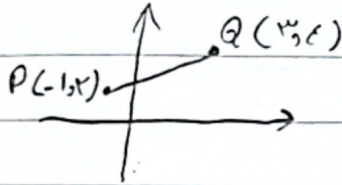


$$\frac{ABE}{BED} = \frac{\frac{1}{r} \times r \times r \times \sin \alpha}{\frac{1}{r} \times r \times n \times \sin \alpha} = \frac{r}{n}$$



$$1) \frac{1}{r} \times \cancel{r} \times \frac{r}{\sqrt{r}} \sin 135^\circ \rightarrow \cancel{r} \times \frac{r}{\sqrt{r}} = \cancel{r} \sqrt{r} \times r = \underline{4\sqrt{r}} \quad (4) \quad 1$$

$$2) \frac{1}{r} \times \cancel{r} \times \frac{r}{\sqrt{r}} \sin 135^\circ = \underline{4\sqrt{r}} \quad 2$$



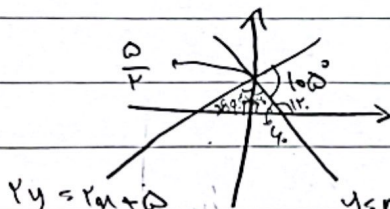
$$\rightarrow \frac{r-1}{r-(-1)} = \frac{r}{r} = \frac{1}{r} = \tan \theta$$

$$1 + \tan^2 \theta = \frac{1}{\cos^2 \theta} \quad (V) \quad 5$$

$$1 + \frac{1}{r^2} = \frac{1}{\cos^2 r} \quad 6$$

$$\frac{r}{r} = \frac{1}{\cos^2 r} \rightarrow \cos^2 r = \frac{r}{r} \quad 7$$

$$\cos^2 r = \frac{r}{r} \rightarrow \cos r = \frac{r}{r} \quad 8$$



$$mb = ?$$

$$y = mx + b$$

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$$y = x + \frac{r}{r}$$

$$b = \frac{r}{r}$$

$$\tan \theta = 1 \rightarrow \theta = 45^\circ$$

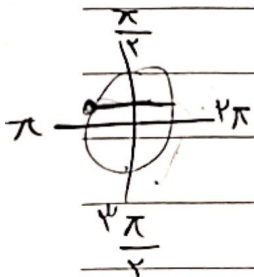
$$\tan 135^\circ = \frac{\sqrt{r}}{r} \times \frac{r}{1} = \sqrt{r}$$

$$-\sqrt{r} \times \frac{r}{r} = -\frac{r\sqrt{r}}{r} \quad (r) \quad 13$$

$$f\left(\frac{3\pi}{4}\right) = \cos\left(\pi + \frac{3\pi}{4}\right) + \sin\left(\frac{\pi}{4} - 135^\circ\right) - \tan\left(\frac{3\pi}{4} + 135^\circ\right) \quad (9) \quad 14$$

$$\cos(135^\circ) - \cos(135^\circ) + \cot(135^\circ) \quad 15$$

$$-\frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} + (-\sqrt{r}) - \sqrt{r} \rightarrow \text{جواب} \quad 16$$



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

$$(n+n) + \sin\left(\frac{\pi}{4} - n\right) - \tan\left(\frac{3\pi}{4} + n\right) \quad 17$$

$$-C \sin + C \sin + C \cot n \quad 18$$

$$\phi(n) = \cot n \rightarrow \phi\left(\frac{3\pi}{4}\right) = \cot\left(\frac{3\pi}{4}\right) = -\sqrt{r} \quad 19$$

$$\frac{\sin\left(\frac{14\pi}{r} + \alpha\right) + \cos\left(\frac{12\pi}{r} - \alpha\right)}{\cos\left(\frac{14\pi}{r} + \alpha\right) - \sin\left(\frac{12\pi}{r} - \alpha\right)}$$

$$\cos(\alpha) - \sin(\alpha)$$

$$\cos(\alpha) - \sin(\alpha)$$

$$\frac{\cos(\alpha) - \sin(\alpha)}{-\cos(\alpha) + \sin(\alpha)} = \frac{\cos(\alpha) - \sin(\alpha)}{-(\cos(\alpha) - \sin(\alpha))} = -1 \rightarrow 1$$