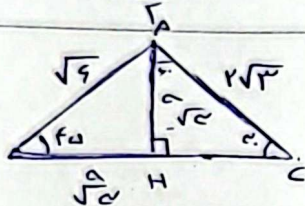


1855

نام و نام خانوادگی: ..... پاسخنامه تشریحی تکلیف شماره ۲۵ ..... کلاس: B

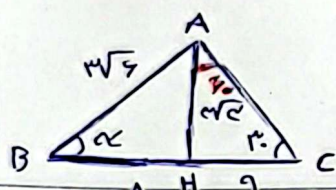
$$\left(\frac{\sqrt{r}}{r} - \frac{\sqrt{e}}{r}\right) \left(\frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r}\right) \Rightarrow \left(\frac{\sqrt{r}}{r} - \frac{\sqrt{e}}{r}\right) \Rightarrow \frac{1}{r} - \frac{\sqrt{e}}{r} = -\frac{1}{r} \quad \checkmark$$

$$\frac{1 + e \times \left(\frac{\sqrt{e}}{e}\right)^r}{e \times \left(\frac{\sqrt{e}}{e}\right)^r + r \times \left(\frac{\sqrt{e}}{e}\right)^r} = \frac{1 + \frac{1}{e} \times e}{e + 1} = \frac{1}{r} \quad \checkmark \quad (2)$$



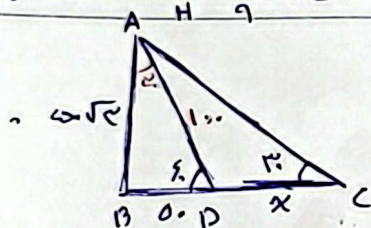
$$r a^r = 6 \Rightarrow a^r = e \Rightarrow a = \sqrt{e} \Rightarrow \frac{\sqrt{e}}{r\sqrt{e}} = \sin \hat{C} \Rightarrow \hat{C} = 45^\circ$$

$$\hat{A} = \hat{C} \Rightarrow \sin 45^\circ = \frac{\sqrt{e}}{r} = \frac{HC}{r\sqrt{e}} \Rightarrow HC = \frac{\sqrt{e}}{r} \times r\sqrt{e} = e \quad \checkmark$$



$$\sin 45^\circ = \frac{\sqrt{e}}{r} = \frac{9}{AC} \Rightarrow AC = \frac{9}{\sqrt{e}} \Rightarrow 6\sqrt{e} \Rightarrow AH = e\sqrt{e}$$

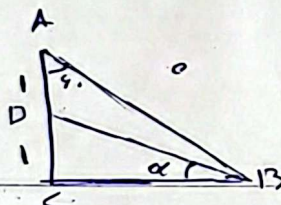
$$\sin \alpha = \frac{e\sqrt{e}}{e\sqrt{e}} = \frac{1}{\sqrt{e}} = \frac{\sqrt{e}}{e} \Rightarrow \alpha = 45^\circ \quad \checkmark$$



$$AD = \frac{r}{r\sqrt{e}} \times a \cdot \sqrt{e} = 1 \Rightarrow BD = 0$$

$$AC = 1 \cdot \sqrt{e} \Rightarrow BC = \sqrt{e} \times \frac{1}{\sqrt{e}} = 1$$

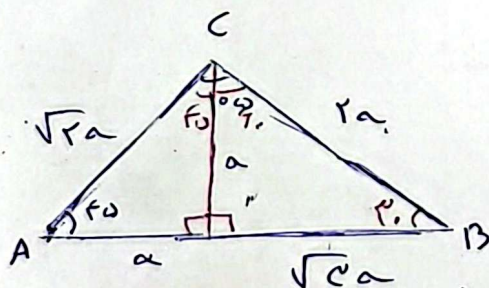
$$DC = 1 - 0 = 1 \quad \checkmark$$



$$\hat{B} = 45^\circ \Rightarrow \sin 45^\circ = \frac{1}{r} = \frac{r}{AB} \Rightarrow AB = r$$

$$\sin 45^\circ = \frac{\sqrt{e}}{r} = \frac{x}{e} = \alpha = r\sqrt{e}$$

$$BD^2 = 1^2 + 1^2 \Rightarrow BD = \sqrt{2} \Rightarrow \sin \alpha = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \quad \checkmark$$



$$\frac{AB}{AC} = \frac{a(1+\sqrt{e})}{\sqrt{2}a} = \frac{1+\sqrt{e}}{\sqrt{2}} \quad \checkmark$$

$$\frac{\sqrt{6} + \sqrt{2}}{r} \quad \checkmark$$

$$S_{\triangle ABE} = \frac{1}{r} \times \frac{r}{\sqrt{e}} \times \frac{r}{\sqrt{e}} \times \sin \hat{B}$$

$$S_{\triangle BDC} = \frac{1}{r} \times e \times \frac{r}{\sqrt{e}} \times \sin \hat{B}$$

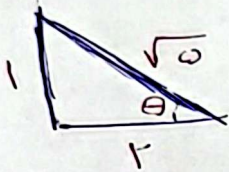
$$= \frac{e}{9} \quad \checkmark$$

$$1) S = ab \cdot \sin \theta = \cancel{e} \times \cancel{e} \times \frac{\sqrt{e}}{r} = \boxed{e\sqrt{e}} \quad \checkmark$$

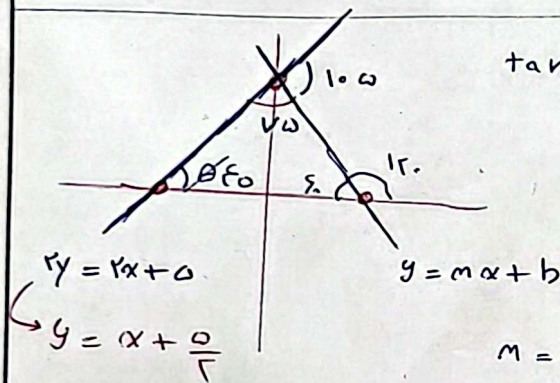
(r)

$$2) S = \frac{1}{r} d d' \sin \theta \Rightarrow \frac{1}{e} \times \cancel{e} \times \cancel{e} \times \frac{\sqrt{e}}{r} \Rightarrow \boxed{e\sqrt{e}} \quad \checkmark$$

$$\tan \theta = \frac{\Delta y}{\Delta x} = \frac{r}{e} = \frac{1}{r}$$



$$\Rightarrow \cos \theta = \frac{r}{\sqrt{1+r^2}} \Rightarrow \boxed{\frac{r\sqrt{e}}{e}} \quad \checkmark \quad (r)$$



$$\tan \theta = 1 \Rightarrow \boxed{\theta = \frac{\pi}{4}}$$

$$m = \tan \theta = -\sqrt{e} \quad b = \frac{a}{r} \quad \boxed{\frac{-a\sqrt{e}}{r}} \quad mb$$

(r)

$$\frac{\omega \pi}{r} \Rightarrow \frac{a \times \pi}{r} = \omega \cdot$$

+ Cot 12:

$$f(\frac{\omega \pi}{r}) = \cos(\frac{\omega \pi}{r}) + \sin(\frac{\omega \pi}{r}) - \tan(\frac{\omega \pi}{r})$$

(12)

$$\frac{\sqrt{e}}{r} - \frac{\sqrt{e}}{r} + (-\sqrt{e}) = \boxed{-\sqrt{e}} \quad \checkmark$$

$$\sin(\frac{14\pi}{r} + \alpha) + \cos(\frac{10\pi}{r} - \alpha)$$

(1)

$$\cos(e\pi + \alpha) - \sin(5\pi - \alpha)$$

$$\begin{aligned} & \cos \alpha + \sin \alpha - \sin \alpha - \cos \alpha \\ & = -\cos \alpha - (-\sin \alpha) \end{aligned}$$

$$\boxed{\frac{\cos \alpha + \sin \alpha}{-\cos \alpha - \sin \alpha}} = -1$$