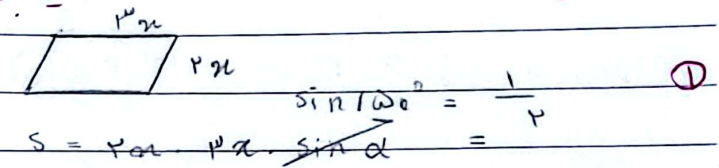


گروه یازدهم دهم

زینا حسینی

تکلیف شماره

$$\frac{1 - \tan \alpha}{\sqrt{\cos^2 \alpha}} = \frac{1 + \sin \alpha}{|\cos \alpha|} \quad (1)$$

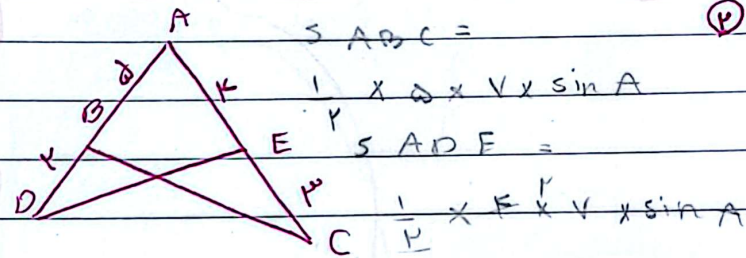


$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{-1}{\cot \alpha} = \frac{-\sin \alpha}{\cos \alpha} \rightarrow \frac{\sin \alpha}{\cos \alpha} = \frac{\sin \alpha}{\cos \alpha} \quad (1)$$

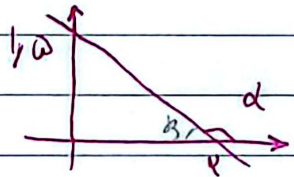
$$S = \frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times \text{base} \times y \sin \alpha = \frac{1}{2} \times \text{base} \times y \sin \alpha = \frac{1}{2} \times \text{base} \times y \sin \alpha$$

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

$$\frac{1 - \sin \alpha}{|\cos \alpha|} < 0 \quad (2)$$



(1) و (2) → α فرضیه



$$\tan \alpha = -\tan \beta = -\frac{r}{1} = -r$$

$$\frac{r \sin A}{1} = \frac{1 \sin A}{r} = \frac{r \sin A}{r} = \sin A = \frac{1}{r} \rightarrow A = 90^\circ$$

$$\tan\left(\frac{90}{r} - \alpha\right) = \cot \alpha = \frac{-r}{1}$$

s.a.m

$$\sin \alpha = r \cos \alpha \rightarrow \tan \alpha = \frac{\sin \alpha}{\cos \alpha} = r$$

$$\cos \alpha = ? = \frac{-\sqrt{10}}{10}$$

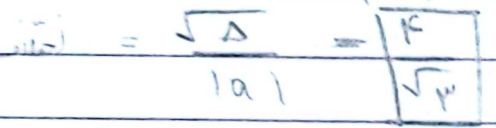


$$|\cos \alpha| = \frac{1}{\sqrt{10}} = \frac{\sqrt{10}}{10}$$

$$y = \frac{-r m}{m^2 - 1} x + \frac{r}{m^2 - 1} \quad \text{--- (A) ---}$$

$\tan 45^\circ = \sqrt{10}$

$$\frac{-r m}{m^2 - 1} = \sqrt{10} \quad \sqrt{10} m^2 - \sqrt{10} = -r m$$



$$\Delta = r - \frac{r(\sqrt{10})}{-1} = 14$$

$$\frac{r \cos(\pi + \alpha) - r \sin(\pi + \alpha)}{\sin(\pi + \alpha) - \cos(\pi + \alpha)} = \text{--- (B) ---}$$

$$\frac{r \cos(\pi - r r^\circ) - r \sin(\pi - r r^\circ)}{\sin(\pi + r r^\circ) - \cos(\pi + r r^\circ)}$$

$$= \frac{-r \sin \alpha - r \sin \alpha}{-\sin \alpha - \sin \alpha} = \frac{-2r}{-2} = r$$

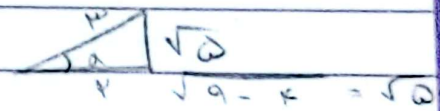
$$\frac{\sin(\frac{\pi}{4} + \alpha) - \sin(\alpha - \frac{\pi}{4})}{|\tan^2 \alpha - 1|} \quad \text{--- (C) ---}$$

$$\cos \alpha + \sin \alpha$$

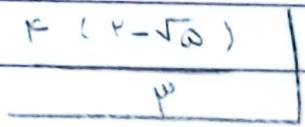
$$\tan^2 \alpha - 1$$

$$\cos \alpha = \frac{r}{\sqrt{10}}$$

$$\sin \alpha = \frac{-\sqrt{10} r}{10}$$



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



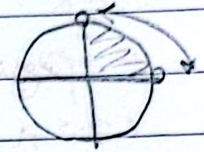
s.a.m

$$\begin{aligned} & \frac{-\sqrt{\mu}}{\sqrt{\mu}} \cos(\pi) + \frac{-\sqrt{\mu}}{\sqrt{\mu}} \sin(\pi) \\ & = \frac{\mu}{\mu} + \left(-\frac{\mu}{\mu}\right) = 0 \end{aligned}$$

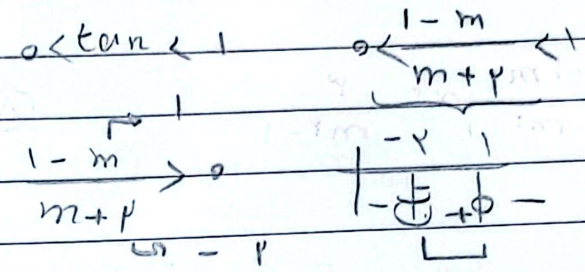
(10)

$$-\frac{\pi}{\mu} < \alpha < \frac{\pi}{\mu} \quad (9)$$

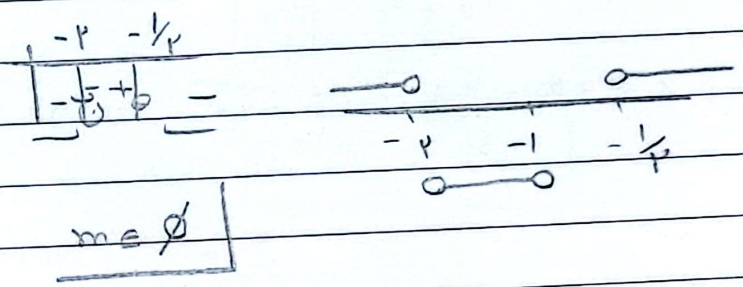
$$\tan\left(\frac{\pi}{\mu} - \alpha\right) = \frac{1-m}{m+\mu}$$



$$-\frac{\pi}{\mu} < -\alpha < \frac{\pi}{\mu} \quad + \frac{\pi}{\mu} \rightarrow 0 < \frac{\pi}{\mu} - \alpha < \frac{\pi}{\mu}$$



$$\frac{1-m}{m+\mu} < 1 \quad \frac{1-m-m-\mu}{m+\mu} = \frac{-\mu m - 1}{m+\mu}$$



s.a.m