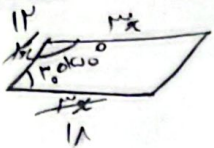


درستی و خطا (A)



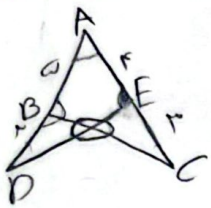
$$\frac{1}{r} \times B \sin \alpha = \cos \alpha$$

$$\alpha \times B \sin \alpha = l \cos \alpha \rightarrow \frac{\alpha}{r} \times B = l \cos \alpha \rightarrow \alpha B = \frac{l r \cos \alpha}{\sin \alpha}$$

$$2 \alpha \times 2 \cos = 2 \times 1 \times 2$$

$$6 \alpha = 2 \times 1 \times 2 \rightarrow \alpha = \frac{2}{3} \rightarrow (1 + 1) \times \frac{2}{3} = \frac{4}{3}$$

-1

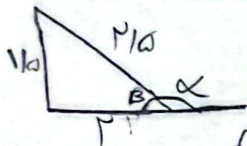


$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{1}{\tan \alpha} \rightarrow \frac{|\sin \alpha|}{\cos \alpha} = -\tan \alpha$$

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

$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{1}{\cos \alpha} \leftarrow \text{اینجا اولی است}$$

-2



$$\frac{1}{r} = \tan \beta \rightarrow \frac{h}{r} = \tan \beta$$

$$\tan(\frac{\pi}{2} - \alpha) = \cot \alpha \leftarrow \text{اینجا اولی است}$$

-3

$$\frac{m \cos(\frac{\pi}{2} - 22^\circ) - n \sin(\frac{\pi}{2} - 22^\circ)}{\sin(\frac{\pi}{2} + 22^\circ) - \cos(\frac{\pi}{2} + 22^\circ)} = \frac{m \sin 22^\circ - n \sin 22^\circ}{-\sin 22^\circ - \sin 22^\circ} = \frac{m \sin 22^\circ - n \sin 22^\circ}{-2 \sin 22^\circ} = \frac{m - n}{2}$$

-4

$$\sin \alpha = \sqrt{\cos \alpha}$$

-5