

$$\text{الف) } \tan\left(3\pi - \frac{\pi}{\varepsilon}\right) + \sin\left(2\pi - \frac{\pi}{\varepsilon}\right) + \cos\left(3\pi + \frac{\pi}{\varepsilon}\right) \quad (1)$$

$$8:00 \quad -\tan\left(\frac{\pi}{\varepsilon}\right) + -\sin\left(\frac{\pi}{\varepsilon}\right) + -\cos\frac{\pi}{\varepsilon} = -1 + \frac{1}{\mu} = -\frac{1}{\mu}$$

$$9:00 \quad \text{ب) } \tan\left(3\pi - \frac{\pi}{4}\right) + \sin\left(2\pi - \frac{\pi}{4}\right) + \cos\left(3\pi + \frac{\pi}{4}\right) \rightarrow (-\tan\left(\frac{\pi}{4}\right))$$

$$\times (\sin\left(\frac{\pi}{4}\right) - \cos\frac{\pi}{4}) = \frac{1}{\mu} + \frac{1}{\mu} = \frac{2}{\mu}$$

$$10:00 \quad \frac{\cos n}{\sin n} \rightarrow \frac{\cot n - 1}{\cot n + 1} \rightarrow \frac{\mu - 1}{\mu + 1} = \frac{1}{\mu} \rightarrow \boxed{\frac{1}{\mu}} \quad (2)$$

$$11:00 \quad \sin^2 \alpha + \cos^2 \alpha = 1 \rightarrow (r \cos \alpha)^2 + \cos^2 \alpha = 1 \rightarrow r^2 \cos^2 \alpha + \cos^2 \alpha = 1 \quad (3)$$

$$12:00 \quad \rightarrow r^2 \cos^2 \alpha = 1 - \cos^2 \alpha \rightarrow \cos^2 \alpha = \frac{1}{r^2} \rightarrow \cos \alpha = \pm \frac{1}{r} \rightarrow \left\{ \frac{1}{r}, -\frac{1}{r} \right\}$$

$$13:00 \quad \text{ب) } \sin\left(3\pi + \frac{\pi}{\varepsilon} + \alpha\right) = \sin\frac{\pi}{\varepsilon} \cos \alpha + \cos\frac{\pi}{\varepsilon} \sin \alpha \quad (4)$$

$$14:00 \quad \frac{-\sqrt{r}}{r} \times \frac{1}{\sqrt{r}} + \frac{1}{\sqrt{r}} \times \frac{\sqrt{r}}{r} = -\frac{1}{r} + \frac{1}{r} = 0 \rightarrow 1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha}$$

$$15:00 \quad \sin^2 \alpha = 1 - \cos^2 \alpha \rightarrow r(1 - \cos^2 \alpha) + \cos^2 \alpha = \frac{1}{r} \quad (5)$$

$$\cos^2 \alpha = \frac{1}{r}$$

$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \rightarrow 1 + \tan^2 \alpha = \frac{1}{r} \rightarrow \tan^2 \alpha = \frac{1}{r} - 1$$

$$16:00 \quad \frac{1}{r} \times 9\sqrt{r} \times \sin \alpha = \varepsilon, \theta \rightarrow \sin \alpha = \frac{\varepsilon \sqrt{r}}{r} = \frac{\sqrt{r}}{r} \quad (6)$$

$$17:00 \quad \left(\frac{1}{r} \times r \times r \times \sin 30\right) \times r = \omega \varepsilon \quad (7)$$

$$18:00 \quad \mu n^2 = \omega \varepsilon \quad n^2 = 1 \rightarrow n = \pm \sqrt{1}$$

$$+ \sqrt{1} \quad \rho(1\sqrt{1} + 1\sqrt{1}) \times r = 1.0\sqrt{1}$$

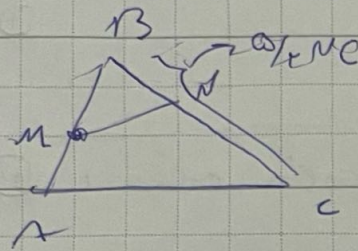
تاریخ:

$$S_{ABE} = \frac{1}{2} \times 8 \times 4 \sin A$$

$$\frac{1}{2} \times 8 \sin A = 16 \sin A \quad S_{ADE} = \frac{1}{2} \times 8 \times 4 \sin D$$

$$16 \sin A = 16 \sin D \Rightarrow \sin A = \sin D$$

$$\sin A = \sin D = \frac{1}{2} \rightarrow A = 30^\circ \rightarrow \tan 30^\circ = \frac{\sqrt{3}}{3}$$



$$BN = NC \rightarrow BN = \frac{1}{2} NC$$

$$\frac{1}{2} NC + NC = \frac{3}{2} NC$$

$$S_{ADC} = \frac{1}{2} \times \frac{3}{2} NC \times AB \times \sin B$$

$$\left(\frac{1}{2} \times \frac{3}{2} NC \times MB \times \sin B \right)$$

$$\frac{3}{2} NC \times AB \times \sin B = \frac{3}{2} NC \times MB \times \sin B$$

$$\frac{3}{2} BM + \frac{3}{2} AA = \frac{3}{2} MB$$

$$\frac{3}{2} AM = MB$$

$$\frac{BM}{AM} = \frac{3}{2}$$

$$\frac{|\sin \alpha|}{\cos \alpha} = -\frac{1}{\cot \alpha} \rightarrow \frac{|\sin \alpha|}{\cos \alpha} = -\frac{\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$

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

$$\cos > 0 \rightarrow \tan \alpha = -\tan \alpha \times$$

$$\cos < 0 \rightarrow \tan \alpha = \tan \alpha \checkmark$$

پہلے