

$$\begin{aligned} & \tan \frac{10\pi}{9} \times \sin \frac{11\pi}{9} + \cos \frac{10\pi}{9} \\ & \tan\left(\pi + \frac{10\pi}{9}\right) \times \sin\left(\pi + \frac{11\pi}{9}\right) + \cos\left(\pi + \frac{10\pi}{9}\right) \\ & \tan(180^\circ) \times \sin\left(\frac{220^\circ}{9}\right) + \cos(180^\circ) \\ & -\frac{1}{\sqrt{x^2}} \times -\frac{\sqrt{y^2}}{y} + \left(-\frac{1}{y}\right) = \frac{1}{y} - \frac{1}{y} = 0 \end{aligned}$$

1A)  $\cos 11\pi/8 \times \cos 10\pi/8$  (1A)

$$\tan \frac{11\pi}{8} + \sin \frac{10\pi}{8} \times \cos \frac{10\pi}{8}$$

$$\tan \left( \pi + \frac{3\pi}{8} \right) + \sin \left( \pi + \frac{3\pi}{8} \right) \times \cos \left( \pi + \frac{\pi}{8} \right)$$

$$\tan(135^\circ) + \sin(135^\circ) \times \cos(135^\circ)$$

$$-1 - \frac{\sqrt{2}}{2} \times -\frac{\sqrt{2}}{2} = -1 + \frac{2}{2} = \left( -\frac{1}{2} \right)$$

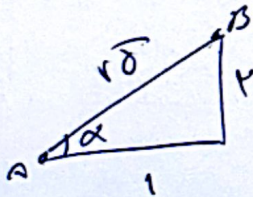
$$\cot x = r$$

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

$$\frac{\cot m - 1}{\cot m + 1} \Rightarrow \frac{12 - 1}{12 + 1}$$

$$\frac{11}{0}$$

$$\sin \alpha = \frac{y}{r} \quad \cos \alpha = \frac{x}{r} \quad \Rightarrow \quad \tan \alpha = \frac{y}{x}$$



$$AB = \sqrt{0} \quad \text{---}, \quad \cos C_0 = -\frac{1}{\sqrt{0}}$$

$$\frac{\partial V}{\partial r} \sin \alpha = \frac{1}{\partial V} \cos \alpha = \frac{V}{\partial V}$$

$$\frac{13\pi}{\epsilon}, \quad \pi + \frac{\pi}{\epsilon} = \frac{\delta\pi}{\epsilon}$$

$$\sin\left(\frac{\delta\pi}{\epsilon} + \alpha\right) = \left(\sin\frac{\delta\pi}{\epsilon} \times \cos\alpha\right) + \left(\sin\alpha + \cos\frac{\delta\pi}{\epsilon}\right)$$

$$\Rightarrow \left( -\frac{\sqrt{P}}{P} \times \frac{\delta V}{\delta \sqrt{P}} \right) + \left( \frac{1}{\delta \sqrt{P}} \times \frac{\delta \sqrt{P}}{P} \right) = -\frac{\delta V}{10P} + \frac{1}{10}$$

$$= -\frac{\sqrt{P}}{1} = -\frac{10}{1} \rightarrow \text{jeu}$$

$\Delta V_{\text{th}}$   $\Delta B \Rightarrow \Delta z / \pm n^r$  (الف)

$$\cos \alpha = \frac{-V}{\delta V_P} \quad \sin \alpha = \frac{1}{\delta V_P}$$

$$\frac{11\pi}{\varepsilon} : \pi + \frac{5\pi}{\varepsilon} : \frac{5\pi}{\varepsilon} \quad \cos\left(\frac{5\pi}{\varepsilon} + \alpha\right) = 0$$

$$(\cos \frac{\pi}{2} \cdot \cos \alpha) - (\sin \frac{\pi}{2} \cdot \sin \alpha) =$$

$$\left( \left( \frac{1}{\sqrt{1-\frac{v^2}{c^2}}} \right) \times \frac{V}{\Delta \sqrt{1-\frac{v^2}{c^2}}} \right) - \left( \frac{1}{\sqrt{1-\frac{v^2}{c^2}}} \times \frac{1}{\Delta \sqrt{1-\frac{v^2}{c^2}}} \right) = \frac{V}{E_0} - \frac{1}{E_0} = \frac{V}{E_0} \left( \frac{1}{\sqrt{1-\frac{v^2}{c^2}}} \right)$$

$$\sin^2 + \sin^2 + \cos^2 = \frac{F}{r}$$

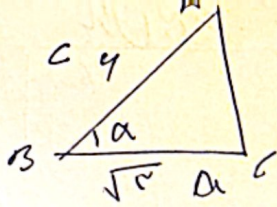
$$\sin^2 \theta = \frac{f}{c}$$

$$\sin^2 = \frac{1}{\mu} \quad \text{c)} \quad \text{---}$$

$$\frac{r}{r} + n = \frac{f}{c} \quad n/\cos r = \frac{r}{r}$$

$$\tan^r = \frac{\sin^r}{\cos^r} = \frac{\frac{1}{r}}{\frac{1}{r}} = \left( \frac{1}{r} \right)$$

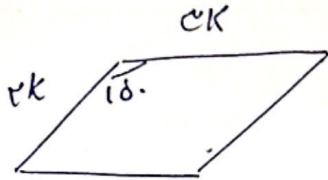




$$S = \frac{1}{r} \times AC \sin \alpha \Rightarrow F_1 d = \frac{1}{r} \times 4 \times \sqrt{r} \times m \Rightarrow$$

$$F_1 F_2 m = 4d \quad m = \sqrt{\frac{r}{r}} \Rightarrow \sin \alpha \sqrt{\frac{r}{r}} \Rightarrow \alpha = 40.1^\circ$$

$$\frac{r_1}{a_1} = \sqrt{r}$$



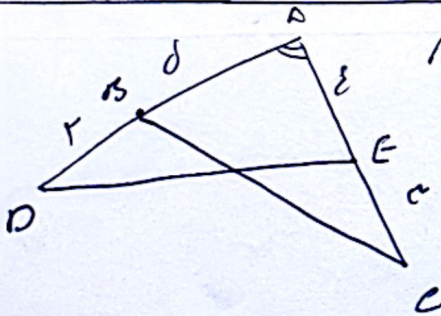
$$\sin 10^\circ = \frac{1}{r}$$

$$S = \frac{1}{r} \times CK \times CK \Rightarrow CK^2 = 8r$$

$$CK = 4\sqrt{r}$$

$$(4 \times 4\sqrt{r}) + 1 \times \sqrt{r} = \sqrt{r} \times \sqrt{r}$$

$$K^2 = 1 \quad K = \sqrt{r}$$



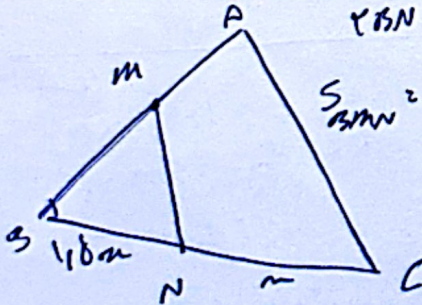
$$S_{BDC} = \frac{1}{r} \times \delta \times \epsilon \times \sin \alpha = \frac{1}{r} \times \delta \times \epsilon \times \sin \alpha$$

$$S_{ADE} = \frac{1}{r} \times \epsilon \times \delta \times \sin \alpha = \frac{1}{r} \times \epsilon \times \delta \times \sin \alpha$$

$$\frac{1}{r} \times \delta \times \epsilon \times \sin \alpha = \frac{1}{r} \times \epsilon \times \delta \times \sin \alpha = \frac{1}{r} \times \epsilon \times \delta \times \sin \alpha$$

$$\angle A = 40.1^\circ$$

$$\tan \theta = \frac{1}{\sqrt{r}}$$



$$r_{BN} = r_{NC} \quad r_{BN} = \frac{1}{9} m$$

$$S_{BMN} = \frac{1}{r} \times BM \times \frac{1}{9} m \times \sin \theta$$

$$S_{ABC} = \frac{1}{r} \times BA \times \frac{1}{9} m \times \sin \theta$$

$$\frac{S_{ABC}}{S_{BMN}} = r \Rightarrow \frac{\delta \times BA}{r \times BM} = r$$

$$\frac{BM}{AM} = \frac{\delta \times BA}{\frac{1}{9} m \times BA} = \frac{\delta}{\frac{1}{9} m} = \frac{1}{9} \times \frac{m}{\delta}$$

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

$$\cos \alpha = -\frac{1}{r}$$

$$-\cos \alpha = \frac{1}{r}$$

$$\frac{1}{\cos \alpha} = -\frac{1}{r} \Rightarrow \cos \alpha = -\frac{1}{r}$$

$$|\sin \alpha| = -\sin \alpha \Rightarrow \sin \alpha = -\frac{1}{r}$$

$$\sin \alpha = -\frac{1}{r}$$