

Date:

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18, Feb

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$$\tan \frac{17\pi + \pi}{\epsilon} + \sin \frac{17\pi + \pi}{\epsilon} \times \cos \frac{17\pi + \pi}{\epsilon} = \quad (7) -1$$

$$\tan 180^\circ + \sin 180^\circ \times \cos 180^\circ = (-1) + (-\sqrt{\frac{1}{2}} \times -\frac{\sqrt{2}}{2}) = \left(-\frac{1}{2}\right) \quad \checkmark$$

$$\therefore \tan \frac{17\pi + \pi}{\epsilon} \times \sin \frac{9\pi + \pi}{\pi} + \cos \frac{9\pi + \pi}{\pi} =$$

$$\tan 180^\circ \times \sin 180^\circ + \cos 180^\circ = -\frac{1}{\sqrt{2}} \times \left(-\frac{\sqrt{2}}{2}\right) + \left(-\frac{1}{2}\right) = 0 \quad \checkmark$$

$$\cot \pi = \epsilon \rightarrow \frac{\cos \pi}{\sin \pi} = \epsilon \rightarrow \cos \pi = \epsilon \sin \pi \quad (7) -1$$

$$\pi (\epsilon \sin \pi) - \sin \pi = \frac{11 \sin \pi}{\pi \sin \pi} = \left(\frac{11}{\pi}\right) \quad \checkmark$$

$$\sin \alpha = r \cos \alpha \rightarrow \sqrt{1 - \cos^2 \alpha} = r \cos \alpha \quad (7) -1$$

$$1 - \cos^2 \alpha = r^2 \cos^2 \alpha$$

$$1 = \delta \cos^2 \alpha \rightarrow \cos^2 \alpha = \frac{1}{\delta} \rightarrow \cos \alpha = \pm \frac{\sqrt{\delta}}{\delta} \quad \left(-\frac{\sqrt{\delta}}{\delta}\right) \quad \checkmark$$

$$\cos \left(\frac{11\pi}{\epsilon} + \alpha \right) \rightarrow \cos \frac{11\pi}{\epsilon} \times \cos \alpha - \sin \frac{11\pi}{\epsilon} \times \sin \alpha = \quad (\text{call } \pi)$$

$$\sin \alpha = \frac{\sqrt{1-\delta}}{1-\delta} \rightarrow \sqrt{1 - \cos^2 \alpha} = \frac{\sqrt{1-\delta}}{1-\delta} \quad 1 - \cos^2 \alpha = \frac{1}{\delta} \quad (7)$$

$$\cos^2 \alpha = \frac{\epsilon \delta}{\delta} \rightarrow \cos \alpha = \pm \frac{\sqrt{\delta}}{\sqrt{\delta}} \quad \cos \alpha = -\frac{\sqrt{\delta}}{\sqrt{\delta}}$$

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

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$$\sin\left(\frac{120^\circ}{\epsilon} + \alpha\right) = \sin \frac{120^\circ}{\epsilon} \times \cos \alpha + \cos \frac{120^\circ}{\epsilon} \times \sin \alpha \quad (i)$$

$$\frac{1}{\cos^2 \alpha} = 1 + \frac{1}{\epsilon^2} \rightarrow \frac{1}{\cos^2 \alpha} = \frac{d}{\epsilon^2} \rightarrow \cos^2 \alpha = \frac{\epsilon^2}{d} \rightarrow \cos \alpha = \pm \frac{\sqrt{d}}{\sqrt{d^2}}$$

$$\cos \alpha = \frac{\sqrt{d}}{\sqrt{d^2}}$$

$$\sin \alpha = \frac{1}{\sqrt{d^2}}$$

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

$$r \sin^2 \alpha + (1 - \sin^2 \alpha) = \frac{3}{2}$$

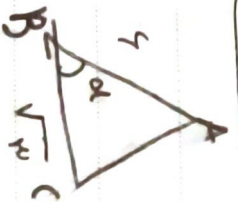
$$r \sin^2 \alpha + 1 - \sin^2 \alpha = \frac{3}{2}$$

$$\sin^2 \alpha = \frac{1}{2}$$

$$\cos^2 \alpha = 1 - \sin^2 \alpha \rightarrow \cos^2 \alpha = \frac{1}{2}$$

$$\tan^2 \alpha = \frac{\sin^2 \alpha}{\cos^2 \alpha} = \frac{\frac{1}{2}}{\frac{1}{2}} = 1$$

$$\frac{1}{2} \times \frac{1}{2} \times \sqrt{2} \times \sin \alpha = 8, 1, 1$$



$$\sqrt{2} \times \sin \alpha = 1, 1$$

$$\sin \alpha = \frac{1, 1}{\sqrt{2} \times \sqrt{2}} = \frac{1, 1}{2} = \frac{1}{2} \times \sqrt{2} = \frac{\sqrt{2}}{2}$$

$$\alpha = 45^\circ \text{ and } 135^\circ$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$a \times b \times \sin 120^\circ = 0, 8$$

$$a \times b \times \frac{1}{2} = 0, 8 \rightarrow a \times b = 1, 6 \rightarrow a \times \frac{\sqrt{2}}{2} = 1, 6 \rightarrow \frac{\sqrt{2}}{2} = 1, 6$$

$$\frac{a}{b} = \frac{1}{\sqrt{2}} \rightarrow b = \frac{\sqrt{2}}{2}$$

$$b = r(4\sqrt{2} + 9\sqrt{2}) = (10\sqrt{2})$$

$$a_1 = \sqrt{10\sqrt{2}} \rightarrow 9\sqrt{2}$$

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$$S_{ABC} - S_{ADE} = l, v d$$

$$\frac{1}{2} \times d \times v \times \sin A - \frac{1}{2} \times v \times l \times \sin A = l, v d$$

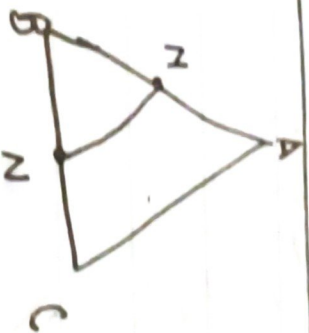
$$\frac{1}{2} d v \sin A = l \times \sin A = l, v d$$

$$v, d \sin A = l, v d$$

$$v \sin A = l \rightarrow \sin A = \frac{l}{v}$$

$$\cos A = \sqrt{1 - \sin^2 A} = \sqrt{1 - \frac{l^2}{v^2}} = \frac{\sqrt{v^2 - l^2}}{v}$$

$$\tan A = \frac{l}{\sqrt{v^2 - l^2}} = \frac{l}{\sqrt{\frac{v^2}{2}}} = \frac{\sqrt{2} l}{v}$$



(F)

$$2 \overline{BN} = v N C \rightarrow N C = \frac{1}{2} B N$$

$$K \times A B \times B C \times \sin B = v \times \frac{1}{2} \times B M \times B N \times \sin B$$

$$(B M + A M) \times (B N + N C) = v K B M \times B N$$

$$(B M + A M) \times \left(\frac{1}{2} B N \right) = v \times B M \times B N$$

$$\frac{v}{2} (B M + A M) = v B M$$

$$\frac{v}{2} B M + \frac{v}{2} A M = v B M$$

$$\frac{v}{2} A M = \frac{v}{2} B M \rightarrow A M = B M$$

$$\frac{B M}{A M} = \frac{1}{1} = 1$$

(0, \pi)



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هل ؟

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

في

$$\frac{1}{|\cos n|} - \frac{\sin n}{\cos n} = \frac{1 + \sin n}{|\cos n|} \rightarrow -\frac{\sin n}{|\cos n|} = \frac{\sin n}{\cos n} \rightarrow \cos n < 0$$