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$$\tan\left(2\pi + \frac{\pi}{4}\right) \times \sin\left(2\pi + \frac{\pi}{2}\right) + \cos\left(2\pi + \frac{\pi}{2}\right) \Rightarrow \frac{-1}{\sqrt{2}} \times \frac{-\sqrt{2}}{2} - \frac{1}{2} = 0 \quad \checkmark$$

$\sin^2 + \cos^2 = 1 \Rightarrow \cos^2 = 1 \Rightarrow \cos = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$ ناقصه 1.75 - 3

$$\sin^2 + \cos^2 = 1 \Rightarrow \cos = \frac{\sqrt{1 - \sin^2}}{1}$$

$$r \sin^2 + 1 - \sin^2 = \frac{r}{r} \Rightarrow \sin^2 = \frac{1}{r} \Rightarrow \sin = \frac{1}{\sqrt{r}} \Rightarrow \frac{1}{r} + \cos^2 = 1 \Rightarrow \cos^2 = \frac{r-1}{r} \Rightarrow \frac{1}{\sqrt{r}} \Rightarrow \tan^2 = \frac{1}{r-1}$$

$$\frac{1}{r} \sin \alpha \times \sqrt{r} \times y = F/\Delta$$

$$\left. \begin{array}{l} \sin \alpha = \frac{\sqrt{r}}{r} \\ 0 < \alpha < 110 \end{array} \right\} a: 110, y_0 \Rightarrow \frac{110}{y_0} = \cancel{4} \checkmark \quad (2) - 9$$

$$\Rightarrow \frac{1}{f} \times r^k \times t^k = \Delta f = \Delta r^k = \Delta f \Rightarrow k = r\sqrt{f} = 1\sqrt{f} + 11\sqrt{f}$$

$$= r_0 \sqrt{f} \quad \checkmark$$

$$S_{ABC} = S_{AEP} = \frac{1}{2} \left(\frac{1}{r} \times \Delta \times V \times \sin A \right) = \left(\frac{1}{r} \times V \times \sin A \right) = 1/V \Delta = \frac{r \sin A}{r} = \frac{r \sin A}{r}$$

$$= 1/V \Delta \Rightarrow \sin A = \frac{1}{r} \Rightarrow A = \sin^{-1} \left(\frac{1}{r} \right) \Rightarrow \tan \alpha = \frac{1}{\sqrt{r^2 - 1}} = \frac{1}{\sqrt{r^2 - 1}} = \frac{1}{\sqrt{r^2 - 1}}$$

$$S_{ABC} = r \sin B \Rightarrow \frac{1}{r} \times BC \times AB \times \sin B = r \times \frac{1}{r} \times BM \times BN \times \sin B$$

$$\frac{\omega}{r} NB = BC \rightarrow \frac{\omega}{r} NB$$

$$\Rightarrow \frac{\omega}{r} \times AB = r \times BM \Rightarrow \Delta AB = 9B \text{ م}$$

$$\Delta B = BM + AM \Rightarrow$$

$$\omega BM + \omega AM = 9BM$$

$$\Rightarrow \frac{BM}{AM} = \frac{1}{r} \checkmark$$

(1) - 9

$$\left| \frac{1}{\cos} \right| - \frac{\sin}{\cos} = \frac{1 + \sin}{1 \cos} \Rightarrow \cos \angle C \left. \begin{array}{l} \text{ } \\ \text{ } \end{array} \right\} \underline{\underline{r}} \checkmark \text{ } \cup$$

$$\frac{|\sin|}{\cos} = -\tan \Rightarrow \sin < 0$$

(2) - 10

الف) $\cos^2 \alpha = 1 - \sin^2 \alpha \rightarrow \cos^2 \alpha = \frac{91}{100} \xrightarrow{\text{بجواب}} \cos \alpha = -\frac{\sqrt{91}}{10} \checkmark$

$$\cos\left(\frac{11\pi}{f} + \alpha\right) = \cos\left(\pi + \left(-\frac{\pi}{f} + \alpha\right)\right) = -\cos\left(\alpha - \frac{\pi}{f}\right)$$

$$= -\left(\cos \alpha \cos \frac{\pi}{f} + \sin \alpha \sin \frac{\pi}{f}\right) = -\left(-\frac{\sqrt{91}}{10} \times \frac{\sqrt{f}}{f} + \frac{\sqrt{f}}{10} \times \frac{\sqrt{f}}{f}\right) = \frac{r}{\omega}$$

ب) $1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \xrightarrow{\text{بجواب}} \cos \alpha = \frac{\sqrt{f}}{10} \xrightarrow{\sin^2 \alpha + \cos^2 \alpha = 1} \sin \alpha = \frac{\sqrt{f}}{10}$

$$\sin\left(\frac{13\pi}{f} + \alpha\right) = \sin\left(\pi + \frac{\pi}{f} + \alpha\right) = -\sin\left(\frac{\pi}{f} + \alpha\right) \xrightarrow{\text{بجواب}} \frac{-r}{\omega}$$