

$$\cos\left(\frac{3\pi}{4}\right) + \sin\left(\frac{\pi}{4}\right) \cos\left(\frac{5\pi}{4}\right) \rightarrow -1 + \left(\frac{-\sqrt{2}}{2} \times \frac{-\sqrt{2}}{2}\right) = -1 + \frac{1}{2} = -\frac{1}{2}$$

(1)

$$\text{ب) } \tan\left(\frac{5\pi}{4}\right) = \sin\left(\frac{5\pi}{4}\right) + \cos\left(\frac{5\pi}{4}\right) = \left(\frac{-\sqrt{2}}{2} \times \frac{-\sqrt{2}}{2}\right) + \left(\frac{-1}{2}\right) \rightarrow \frac{1}{2} - \frac{1}{2} = 0$$

$$\cot = \epsilon \rightarrow \cos = \epsilon \sin$$

(2)

$$\frac{12 \sin x - \sin x}{\epsilon \sin x + \sin x} = \frac{11 \sin x}{\omega \sin x} = \frac{11}{\omega}$$

$$\sin = r \cos$$

$$\sin^2 + \cos^2 = 1$$

(3)

$$\text{مع سطر } \begin{cases} \cos \rightarrow - \\ \sin \rightarrow - \end{cases}$$

$$(r \cos)^2 + \cos^2 = 1$$

$$\epsilon \cos^2 + \cos^2 = 1 \rightarrow \omega \cos^2 = 1 \rightarrow \cos^2 = \frac{1}{\omega}$$

$$\cos = \sqrt{\frac{1}{\omega}} = \frac{1}{\sqrt{\omega}} \rightarrow \frac{\sqrt{\omega}}{\omega}$$

ا))

$$\cos(\alpha + \beta) = \cos \alpha \cos \beta - \sin \alpha \sin \beta$$

$$\cos\left(\frac{11\pi}{4}\right) = \cos\left(\frac{3\pi}{4}\right)$$

(4)

$$\cos\left(\frac{11\pi}{4} + \alpha\right) = \left(\frac{-\sqrt{2}}{2}\right)\left(\frac{-\sqrt{2}}{2}\right) - \left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{2}\right) = \frac{1}{2} - \frac{1}{2} = 0$$

ب))

$$\sin\left(\frac{5\pi}{4} + \alpha\right) = \left(\frac{-\sqrt{2}}{2}\right)\left(\frac{1}{\sqrt{2}}\right) + \left(\frac{1}{\sqrt{2}}\right)\left(\frac{-\sqrt{2}}{2}\right) = \frac{-1}{2} - \frac{1}{2} = -\frac{1}{1} = -1$$

$$r \sin^2 + \cos^2 = \frac{\epsilon}{\gamma} \rightarrow \sin^2 + \cos^2 = 1 \Rightarrow \sin^2 = \frac{1}{\gamma} \rightarrow \sin = \frac{1}{\sqrt{\gamma}} = \frac{\sqrt{\gamma}}{\gamma}$$

(5)

$$\tan^2 = \frac{\sin^2}{\cos^2} = \frac{\left(\frac{1}{\sqrt{\gamma}}\right)^2}{\left(\frac{\sqrt{\gamma}}{\gamma}\right)^2} = \frac{\frac{1}{\gamma}}{\frac{\gamma}{\gamma}} = \frac{1}{\gamma}$$

$$\frac{\sqrt{\gamma}}{\gamma}$$

$$\cos = \frac{\sqrt{\gamma}}{\gamma}$$

$$\frac{1}{r} \times 4 \times \sqrt{r} \times \sin \alpha = 1, \omega \rightarrow \frac{\frac{4}{r}}{\frac{4\sqrt{r}}{1}} = \sin \alpha = \frac{r}{r\sqrt{r}} \rightarrow \frac{r\sqrt{r}}{r} \rightarrow \frac{\sqrt{r}}{r} \rightarrow u_0, 12.$$

$$\frac{12}{u_0} = r$$

$$r \times r \times \sin \alpha \times r = \omega r \rightarrow 1, \omega = 4\pi r \rightarrow r = \frac{1}{4\pi}$$

$$(r \times 4\sqrt{r}) \times (4\sqrt{r} \times r) \rightarrow 16\sqrt{r} + 16\sqrt{r} = 32\sqrt{r}$$

$$\downarrow \quad \downarrow$$

$$r \times 4\sqrt{r} \quad 4\sqrt{r} \times r$$

$$ABC = \omega \times V \times \frac{\sin \alpha}{r} = \frac{\omega}{r} \sin \alpha = \omega, \omega \sin \alpha$$

$$AOE = \epsilon \times V \times \frac{\sin \alpha}{r} \rightarrow 1\epsilon \sin \alpha$$

$$1\omega, \omega - 1\epsilon = 4, \omega$$

$$4, \omega \times 1, \omega \rightarrow \frac{4}{\sin \alpha} = \frac{1}{r}$$

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

$$\frac{BN}{BC} = \frac{r}{\omega}$$

$$CN + NB = BC$$

$$\triangle ABC \sim \triangle BMN \rightarrow \frac{BMN}{ABC} = \frac{BM}{AB} \times \frac{BN}{BC}$$

$$\frac{BM}{AB} = \frac{\omega}{q} \rightarrow BM = \frac{\omega}{q}$$

$$AM = 1 - BM = \frac{q}{q}$$

$$AM = 1 - BM = \frac{q}{q}$$

$$\frac{BM}{AM} = \frac{\frac{\omega}{q}}{\frac{q}{q}} = \frac{\omega}{q}$$

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

$$\frac{1}{\sqrt{\cos \alpha}} - \tan \alpha = \frac{1 + \sin}{|\cos \alpha|} = \frac{1}{|\cos|} - \frac{\sin}{\cos} = \frac{1 + \sin}{\cos} \times \frac{|\cos|}{1 + \sin} \left(\frac{|\cos|}{\cos} \right)$$

$$\rightarrow \cos \leftarrow 1 - (-\sin)$$

رأى

مساحت مثلثى متساوية الاضلاع = اثنى عشر مضارب
نسبة مساحت مثلثى متساوية الاضلاع ضرب نسبة قيمتي ضلعيه