

مستند من إعداد الأستاذ

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

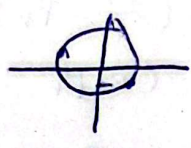
$\sqrt{\sin^2 \alpha} = |\sin \alpha|$

$\cot \alpha = \frac{\cos \alpha}{|\sin \alpha|} \Rightarrow \frac{\cos \alpha}{\sin \alpha} \leq \frac{\cos \alpha}{|\sin \alpha|} \Rightarrow \sin \alpha > 0$

$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \Rightarrow \cos \alpha \leq |\cos \alpha|$
 $\cos \alpha > 0 \quad II$

II & I \Rightarrow دالة

2- $-\frac{\pi}{4} < \mu < \frac{\pi}{4}$



$-\frac{1}{\sqrt{2}} < \frac{m-1}{\epsilon} \leq 1$

$\Rightarrow -\sqrt{2} < m-1 \leq \epsilon$
 $(-1 < m \leq 2)$

3-

$\tan \mu = \cot \mu = \frac{1}{\sin \mu \cos \mu} = -\frac{1}{\mu} \quad \sin \mu \cos \mu = -\frac{1}{\mu}$

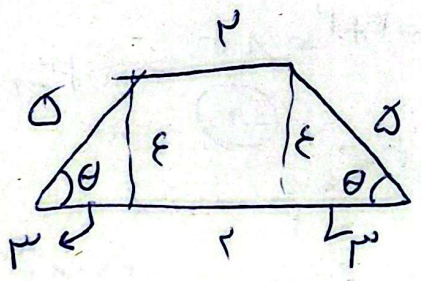
$\sin^m \mu \cos^m \mu = (\sin \mu \cos \mu)^m = \left(\sin \mu \cos \mu - \frac{1}{\mu} \right)^m$

$(\sin \mu \cos \mu)^m + \frac{1}{\mu} \sin \mu \cos \mu = 1 - \frac{\mu}{\epsilon} = \frac{1}{\epsilon} \Rightarrow |\sin \mu \cos \mu| = \frac{\sqrt{\mu}}{\epsilon} \Rightarrow \sin \mu \cos \mu = -\frac{\sqrt{\mu}}{\epsilon}$

$\Rightarrow -\frac{\sqrt{\mu}}{\epsilon} \left(1 + \frac{1}{\epsilon} \right) = \sin^m \mu \cos^m \mu = -\frac{\epsilon}{9} \sqrt{\mu}$

$\frac{1}{\sin^m \mu \cos^m \mu} = \frac{9}{\epsilon \sqrt{\mu}} = -\frac{\mu}{\epsilon} \sqrt{\mu}$

4-



$\epsilon \leq 1 + \mu \leq \mu$

$$\text{d- } \tan\left(\frac{m}{p} + 10\right) \times - \left(\tan(m-10) \right) \\ - \cot(10) \times \tan(10) = -1$$

$$\sin\left(\frac{m}{p} + 10\right) \times \cos\left(\frac{m}{p} - 10\right) \\ - \sin(10)$$

$$\Rightarrow -1 + \sin^2(10) = \\ -(1 - \sin^2(10)) = \\ -\cos^2(10)$$

$$\textcircled{1 - 1}$$

$$\sqrt{p} \times \frac{\sqrt{p}}{p} \times \sin\left(\frac{m}{p} + 10\right) - \sqrt{p} \times \frac{\sqrt{p}}{p} \times \cos\left(\frac{m}{p} - 10\right) \\ - \cos p v \quad - \cos p v$$

$$\frac{\sqrt{p}}{p} \cos p v + \cos p v = \frac{0}{p} \cos p v$$

$$\frac{\frac{0}{p} \cos p v}{\cos p v} = \textcircled{\frac{0}{p}}$$

v-

$$14 \times \left(\cos^2\left(\frac{m}{p}\right) + \cos^2\left(\frac{m}{p}\right) \right) \times \cos^2\left(\frac{m}{p}\right) \times \cos^2\left(\frac{m}{p}\right)$$

$$14 \times \frac{p \cos^2 v}{p} \times \frac{p}{p} \times \frac{1}{p} \times \frac{1}{p} = \frac{4 + 14 p v}{14}$$

$$1 + \frac{\cos^2 \frac{m}{p}}{p} = \cos^2 \frac{m}{p} = \frac{p \cos^2 v}{p}$$

$$1- \text{dang} = \frac{p \tan \frac{m}{p}}{1 - \tan^2 \frac{m}{p}}$$

$$\frac{p}{p} = \frac{p \tan \frac{m}{p}}{1 - \tan^2 \frac{m}{p}} \quad \text{dang} \frac{m}{p} = t$$

$$1 + \cos m = 1 - \sin m$$

$$\cos m = -t \Rightarrow \sin m = \frac{p}{p}$$

$$\Rightarrow \cos m = -\frac{p}{p}$$

$$t \rightarrow \textcircled{-p}$$

$$\frac{1}{p} = \cos$$

$$\frac{p \sin^2 m}{(1 - \cos m) \sin m} = \frac{p \sin m}{1 - \cos m} \Rightarrow \frac{p \sin m}{p \sin^2 m} = \frac{p \sin \frac{m}{p} \cos \frac{m}{p}}{\sin^2 \frac{m}{p}}$$

$$\frac{1 - \cos m}{p} = \sin^2 \frac{m}{p}$$

$$\sin m = p \sin \frac{m}{p} \cos \frac{m}{p}$$

$$\Rightarrow p \frac{\cos \frac{m}{p}}{\sin \frac{m}{p}} = \textcircled{p \cot}$$

$$1. \cos(\alpha + \beta) = \cos\alpha \cos\beta - \sin\alpha \sin\beta$$

$$\cos\alpha < 2, \quad \sin\alpha > 1$$

$$1 - \frac{2}{1} = \frac{9}{1} = \cos^2\alpha + \cos^2\alpha = \frac{2\sqrt{2}}{1}$$

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