$$\operatorname{sen}\left(\frac{\pi}{3} + x\right) + \cos\left(\frac{\pi}{6} + x\right) = \frac{18.524}{5}$$

$$= \sin\frac{\pi}{3}\cos x + \sin x\cos\frac{\pi}{3} + \cos\frac{\pi}{6}\cos x - \sin\frac{\pi}{6}\sin x = \frac{18.524}{5}$$

$$=\frac{\sqrt{3}}{2}\cos x + \frac{1}{2}\sin x + \frac{\sqrt{3}}{2}\cos x - \frac{1}{2}\sin x =$$

$$= \left(\frac{\sqrt{3}}{2} + \frac{\sqrt{3}}{2}\right) \iff = \left[\sqrt{3} \iff X\right]$$

$$\int \tan(\pi + x) = \tan x = \int \tan(\pi - x) = \tan(-x) =$$

$$\csc(\pi + \alpha) \operatorname{tg}'(\pi - \alpha) + \cos(2\pi - \alpha) - \sec(-\alpha) =$$

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

$$(2\pi + x) = cos(x)$$

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

$$=\frac{1}{cond}+cond-\frac{1}{cond}=[cond]$$

$$tg(-\alpha) + tg(180^{\circ} - \alpha) + tg(360^{\circ} - \alpha) - tg(180^{\circ} - \alpha) =$$

$$= - \tan \alpha - \tan \alpha - \tan \alpha + \tan \alpha = -2 \tan \alpha$$

sen
$$(90^{\circ} + \alpha)$$
 tg $(-\alpha)$ + sen $(90^{\circ} + \alpha)$ cotg $(90^{\circ} - \alpha)$ - cos $(-\alpha)$ sen $(90^{\circ} - \alpha)$ =

$$= \cos \alpha \left(-\tan \alpha\right) + \cos \alpha \frac{\cos (30^{\circ}-d)}{\sin (30^{\circ}-d)} - \cos \alpha \cdot \cos \alpha =$$

$$= -\sin x + \sin x - \cos^2 x = -\cos^2 x$$

$$\operatorname{sen}\left(\frac{\pi}{3} - x\right) - \operatorname{cos}\left(\frac{\pi}{6} - x\right) =$$

$$= \sin \frac{\pi}{3} \cos x - \cos \frac{\pi}{3} \sin x - \left[\cos \frac{\pi}{6} \cos x + \sin \frac{\pi}{6} \sin x\right] =$$

$$=\frac{\sqrt{3}}{2}\cos x - \frac{1}{2}\sin x - \left[\frac{\sqrt{3}}{2}\cos x + \frac{1}{2}\sin x\right] =$$

$$=\frac{\sqrt{3}}{2}\cos x - \frac{1}{2}\sin x - \frac{\sqrt{3}}{2}\cos x - \frac{1}{2}\sin x =$$

sin(d+B) = sind cosB + cosa sinB

$$\sin(d+B) = \sin d \cos B + \cos a \sin B$$

$$\sin(d+B) = \cos d \cos B - \sin a \sin B$$

$$\sin(d+B) = \cos d \cos B - \sin a \sin B$$

=
$$\sin \alpha \cos \frac{2\pi}{3}\pi + \cos \alpha \sin \frac{2\pi}{3}\pi - \left[\cos \frac{\pi}{6}\cos \alpha - \sin \frac{\pi}{6}\sin \alpha\right] =$$

$$= \operatorname{sind}\left(-\frac{1}{2}\right) + \operatorname{cood}\cdot\frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{2}\operatorname{cool} + \frac{1}{2}\operatorname{sind} = 0$$

$$\cos\left(\frac{2}{3}\pi\right) = \cos\left(\pi - \frac{\pi t}{3}\right) = -\cos\frac{\pi}{3} = -\frac{1}{2}$$

FORMULE DI DUPLICAZIONE

Sin
$$2x = ?$$

Cos $2x = ?$

$$\cos 2d = \cos d \cdot \cos d - \sin d \cdot \sin d = \cos^2 d - \sin^2 d = 1 - \sin^2 d - \sin^2 d = 1 - 2\sin^2 d$$

$$= 1 - 2\sin^2 d$$

$$= 1 - 2(1 - \cos^2 d) = 1 - 2 + 2\cos^2 d = 1 - 2\cos^2 d =$$

$$\tan 2\alpha = \frac{2 \operatorname{tou} \alpha}{1 - \operatorname{tou}^2 \alpha}$$