- $\forall x \in [-1,1]$ \bar{e} VERA · Sin (orcsin x) = X
- ORCSIN (SIN X) = X @ VERA & FALSA ? @ FALSA CONTROPSEMBLO.

$$\times = \frac{3}{4} \pi \qquad \sin \left(\frac{3}{4}\pi\right) = \frac{\sqrt{2}}{2} \qquad \arcsin \left(\sin \frac{3}{4}\pi\right) = \frac{\sqrt{2}}{2}$$

$$arcsin\left(\sin\frac{3}{4}\pi\right) =$$

$$= \arcsin\left(\frac{\sqrt{2}}{2}\right) = \frac{\pi}{4}$$

$$arcsin(sin x) = x \quad \forall x \in \begin{bmatrix} -\frac{\pi}{2}, \frac{\pi}{2} \end{bmatrix}$$
 = la formulatione conetta

- · tan (arctan x)=x x ER
- orctan $(ton \times) = X \quad \forall x \in (-\frac{\pi}{2}, \frac{\pi}{2})$

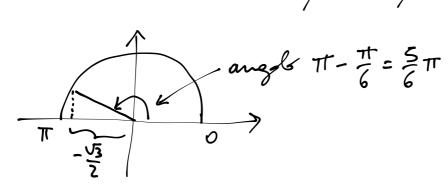
$$X = \frac{3}{4}\pi$$
 tou $\frac{3}{4}\pi = -1$ arctan $(\tan \frac{3}{4}\pi)$ = orctan $(-1) = -\frac{\pi}{4}$

$$\arcsin\frac{1}{2} + \arccos\left(-\frac{\sqrt{3}}{2}\right)$$

 $[\pi]$

$$\arcsin 1 + \arctan(-1)$$

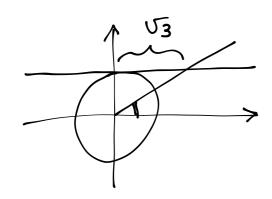
531)
$$\arcsin \frac{1}{2} + \arccos\left(-\frac{\sqrt{3}}{2}\right) = \frac{\pi}{6} + \pi - \frac{\pi}{6} = \pi$$



532) arcsin 1 + orctan
$$\left(-1\right) = \frac{\pi}{2} + \left(-\frac{\pi}{4}\right) = \frac{\pi}{4}$$

arccos
$$(-1)$$
 + arcsin $\left(-\frac{1}{2}\right)$ - arccot $\sqrt{3} = \left[\frac{2}{3}\pi\right]$

$$= \pi + \left(-\frac{\pi}{6}\right) - \frac{\pi}{6} = \pi - \frac{\pi}{3} = \frac{2\pi}{3}$$



$$\begin{array}{ccc}
554 & \sin\left(\arccos\frac{\sqrt{2}}{2}\right) & \left[\frac{\sqrt{2}}{2}\right] \\
555 & \cos\left[\arcsin\left(-\frac{\sqrt{3}}{2}\right)\right] & \left[\frac{1}{2}\right]
\end{array}$$

554)
$$\sin\left(\alpha r\cos\frac{\sqrt{z}}{z}\right) = +\sqrt{1-\cos^2\left(\alpha r\cos\frac{\sqrt{z}}{z}\right)} = \sqrt{1-\left(\frac{\sqrt{z}}{z}\right)^2} = \sin^2\alpha + \cos^2\alpha = 1$$

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

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

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

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

555)
$$\cos \left[\arcsin \left(-\frac{\sqrt{3}}{2}\right)\right] = +\sqrt{1-\sin^2\left(\arcsin \left(-\frac{\sqrt{3}}{2}\right)\right)} =$$

$$= \sqrt{1-\left(-\frac{\sqrt{3}}{2}\right)^2} = \sqrt{1-\frac{3}{4}} = \sqrt{\frac{1}{4}} = \boxed{\frac{1}{2}}$$