Suma de oscilaciones. Φ= An cos(w,t) = Re(Aneiwnt) (An, Az ER) D2 = A2 cos(W2t) = Re(Az (eiwt) φ=φ,+φ= Re(ARiwnt)+ RelAzerwzt) φ = Re(Aneiwnt + Azeriwzt) Sea = Anciwt + Azeiwt => p=Re() 1 1 = Re(1)+Im(1) = (An coswit + An coswit) + (Ansenwat + Azsenwit) = A2+A2+2A1A2(convot convet + Semwit semwet) = A2 + A2 + 2 A1 A2 COS ((W1-W2)+) 11 = [A2 + A2 + 2A1A2 cos[[w-w2] +]1/2

$$\begin{aligned}
\Theta(t) &= Arg(\underline{\Phi}) = tg^{-1}(\underline{Im}(\underline{\Phi})) \\
&= tg^{-1}[\underbrace{A_1 sen w_1 t + A_2 sen w_2 t}] \\
&= A_1 cos w_2 t + A_2 cos w_2 t
\end{aligned}$$

Finalmente

 $\psi(t) = Re(\Phi)$ $= |\Phi| \cos(\Theta(t))$

$$\Phi(t) = \left[A^{2} + A^{2} + 2A_{1}A_{2} \cos[(\omega_{1} - \omega_{2})t]\right]^{2}$$

$$\cos \left[+ \frac{1}{3} \left[\frac{A_{1} \sin \omega_{1}t + A_{2} \sin \omega_{2}t}{A_{1} \cos \omega_{1}t + A_{2} \cos \omega_{2}t} \right] \right]$$

VER MARIE (Suma oscilhain monf.mw)