

$$E_1 = A_1 \cos(\omega_1 t + \phi_1)$$



$$E_3 = A_{31} \cos(\omega_1 t + \phi_1) + A_{32} \cos\left(\omega_2 t + \phi_2 + \frac{\pi}{2}\right)$$

$$E_2 = A_2 \cos(\omega_2 t + \phi_2)$$

$$E_4 = A_{41} \cos\left(\omega_1 t + \phi_1 + \frac{\pi}{2}\right) + A_{42} \cos(\omega_2 t + \phi_2)$$