9 x, (4) x, (4) dl-= \int x, (4) \text{x} \text{4) df} = 0. (Note that 2/16) = 2/1 ct) since x2(t)
is real). Many others terms in 3 an be shown to be equal to zero in a similar wary.

3 finally given by Yp (4) = \frac{1}{2} [[h^2(2) \chi^2(4-2) - h^2(2) \chi^2(4-2)]dz]

800 mfet - sin $mfe(-\left[\frac{1}{2}\int \left[h^{I}(r) u^{0}(\epsilon-r)\right] + h^{0}(r) u^{I}(\epsilon-r)\right]dr$ Companing equation (9) with $y_{p}(t) = y^{T}(t) \text{ (as infel--}y^{0}(t) \text{ sin infet}$ are have $y^{2}(t) = \frac{1}{2} \int (h^{T}(t) x^{T}(t-1) - h^{0}(t) x^{0}(t-1) dt$ you) = 1 [[h2(2) x0(t-2) + 60(2) x2(t-2)] let $y(t) \stackrel{\triangle}{=} y^{2}(t) + j y^{0}(t), h(r) \stackrel{\triangle}{=} h^{2}(r) + j h^{0}(r)$ and $\chi(t) \stackrel{\triangle}{=} \chi^{2}(t) + j \chi^{0}(t)$.