$2\left(\frac{f(t)}{t}\right) = \int_{P} F(t)dp$ 2 (sen Bt) = B 1: f(t) = 1 sen 8 d 6 2[ ] + (T) dt = F(p), p > 6. = 1 g (sent) = 1 p sent do = 1 100 1 dp -> 1 (arctanp) = 1 ( = - cretanp) = To - 1 arctanp parap>0 7.75 2

3.  $f(t) = \begin{cases} sen + para & 0 \le t \le n \end{cases}$   $0 \quad para \quad t > n \end{cases} \quad \text{ $x2(u_q(t)f(t) = e^{qs} 2)f(t+qs)$}$   $f(t) = (1 - u_n) sen t \qquad \text{ $x2(sen\beta t) = p^2 + p^2$}$  f(t) = sent - 0 \$rsen t t\$  $2(f(t) = 2 \text{ $sen t - 2(u_n(t) sen t)$}$   $= \frac{1}{p^2 + 1} - e^{np} 2 (\text{$sen(t+qr)$})$   $= \frac{1}{p^2 + 1} + e^{np} 2 (\text{$sen(t+qr)$})$   $= \frac{1}{p^2 + 1} + e^{np} 2 (\text{$sen(t) = \frac{1}{p^2 + 1} + \frac{1}{p^2 + 1} = \frac{1}{p^2 + 1} + \frac{1}{p^2 + 1} = \frac{1}{p^2 + 1} = \frac{1}{p^2 + 1}$ 

4- F(p) = p2 - e - p2 - p2 1 = 2 ( p2+4) - 2 - 1 ( p2 ) - 2 ( p2 ) \* 1 (cos Bt) = P2,B2 = 1-1 (P2+4) = CO3 Zt \* f(va(E)f(t-a)) = e-a + F(p) = 2-1 (e-apF(p)) Log- (e-apf(p)) = Ua(t) L (F(p) = L-1 (epz) = Up(t) L-1 (pz) = va(t) = = = (t-a) va(t) = e L ( = 20 = 2) = e e Z L ( 10 e 20 : cos2t- - 1 (t-a) va(t)-e v2(t)