



= L & ucf-11) sin(2+) 3 - L &u(f-21) sin(2+)? = L{u(t-1) sin(2(t-1)+21)} -L & u (+-2n) sin (2(+-2n) +4n) } sin is 2n- periodic 2n- periodic 2n- (2(+-n)) } - L { u(+-2n) sin (2(+-2n)) } Dule ens 15 sin(2+) - e-2715 [ {sin(2+)}}  $e^{-\pi s}$   $\frac{2}{s^2+4}$   $-e^{-2\pi s}$   $\frac{2}{s^2+4}$ Therefore: X" + 9x = f(+) => X + JX = f(t) = 1  $X(s)(s^2 + g) = (e^{-\pi s} - e^{-2\pi s})^{\frac{7}{2}}$ =)  $\chi(s) = 2 \frac{1}{s^2+9} \frac{1}{s^2+4} \left(e^{-ns} - e^{-2ns}\right)$