bean for Lope Terle 200 Q1 y" (1) ry(1) = + + 5(H) y(0)=1 y(0)=0 524-5y6)-y'6)+4= t2 e-5 4 (52+1) -5 = 12 +e- $\dot{y} = \frac{1}{s^2(s^2+1)} + \frac{e^{-3}}{s^2+1} - \frac{s}{s^2+1}$ 9 52 - 52+1 + e-3 1 - 52+1 52+1 52+1 - 80 $L^{2}[4] = t - Snt \quad u(t-1)Sin(t-1) - sixt$ t - Sint + u(t-1)Sin(t-1) + (OS(t))2012 6 y"+9y= -9ult-or) +66(t-200) y(0)=1 y(0)=0 524-5 +94 = -9e-m + 6e-2m $4(s^{e}+9) = -\frac{9e^{-i\pi}}{s} + 6e^{-2\pi i} + 1$ $\frac{y}{s(s^{2}+9)} + \frac{6e^{-2\pi s}}{s^{2}+9} + \frac{5}{s^{2}+9}$ $-e^{\pi s} \left(\frac{1}{3} - \frac{5}{s^{2}+3^{2}}\right) + 2e^{-2\pi s} \frac{3}{s^{2}+3^{2}} + \frac{1}{s^{2}+9}$ $-u(t-\pi) \left(1 - \cos(t-\pi) + 2u(t-2\pi)(\sin(t-2\pi)) + \cos(3t-\pi)\right)$





