

136C-13 =0 3, (c) $y'-y=2\cos bt$ y(0)=0Sol. $sy(s)-y(0)-y(s)=4\cos bt$ (S+) $y(s)=3\cos bt$ (S+) y(sSol (p) 7 (2-3)(2-7) } = 7 (2-3)(2-7)(2-7) } = 1 (2-3)(2-7)(2-7) } (e) $\int_{-1}^{1} \frac{(s+1)^{2}}{(s+1)^{2}} \int_{-1}^{1} \frac{(s+1)^{2}}{(s+1)^{2}} \int_{-1}^{1}$ $= \frac{4}{5+1} + \frac{1}{5+4} \quad \text{if } y = \left(\frac{4}{3}e^{4} - \frac{1}{3}e^{4}\right)$ (b) 2 th - y = 0 , y(0) = 5 50(, 2(s/(s) - y(0)) - y(s) = 0 (25-1)y(s) = 10 $(25-1)y(s) = \frac{10}{25+1} = \frac{5}{5-1/2}$ iy= aseit

