March 27, 2024 Verstores -7 Pitterested Egr. Laplace 1) f(1) = F(s) 2 4 4(1) } = 4(s) 1 3 y (1) = 5 y (1) - y (0) 25 5"(1) = 5 7(6) - 5y(0) - y(0) (=x. 8" +29" +4 =5 , 7(8)=2 3"(0)=6 \ = ? 173" +23" + 37 = 2757 s² - 5 · · · Y(s) ... = 5 50/-1 (0 4/1):

$$y' - y = e^{3t}$$
, $y(s) = 2$

$$SY(s) - y(o) - Y(s) = \frac{1}{s-3}$$

$$54(1) - 2 - 4(5) = \frac{1}{5-3}$$

$$\gamma(s)(s-1)-2=\frac{1}{s-3}$$

$$\gamma(0)^{2}$$
 $\frac{1}{(s-3)(s-1)} + \frac{2}{s-1}$

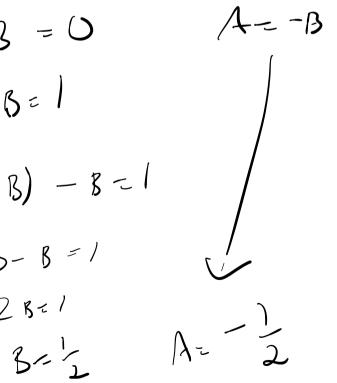


$$\frac{1}{(5-3)(5-1)} = \frac{A}{5-1} + \frac{B}{5-3}$$

$$A + B = 0$$

$$-3A - B = 1$$

$$-3(-B) - B = 1$$



$$\frac{-\frac{1}{2}}{s-1} + \frac{\frac{1}{2}}{s-3}$$

$$= -\frac{1}{2} \left(\frac{1}{s-1} \right) + \frac{1}{2} \left(\frac{1}{s-3} \right)$$

$$\frac{1}{y(1)^{2}} - \frac{1}{2}(\frac{1}{s-1}) + \frac{1}{2}(\frac{1}{s-3}) + \frac{2}{s-1}$$

$$\frac{1}{y(1)^{2}} - \frac{1}{2}e^{t} + \frac{1}{2}e^{t} + 2e^{t}$$

$$\frac{3}{2}e^{t} + \frac{1}{2}e^{t}$$

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$$f(+-2) = 2++1 \vee f(+) = 2++5$$

$$\left(2 \left(\frac{1}{2} \right) + \frac{1}{4} + \frac{1}{4} \right) L_{2} (4)$$

$$\left(2 \left(\frac{1}{2} \right) + \frac{5}{4} \right) L_{2} (4) = f(1+2) L_{2} (4)$$

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$$\left(2 + \frac{1}{4} \right) L_{2} (4)$$

$$\left(2 + \frac$$

y'' + 8y + 2y = 0 y(0)=1

$$\frac{5\sqrt{(x+1)^2}}{\sqrt{(x+1)^2}}$$

$$\frac{5+8}{5^2+85+2}$$

We'll Stop there.

Ex.

Y(1)- 52+65+5

/g(1) = 2e-t-e-5t