

$$\begin{aligned}
 2 \ln y &= x + \ln x + k \\
 \ln y^2 &= \ln e^x + \ln x + \ln K \\
 y^2 &= K x e^x \quad \#
 \end{aligned}$$

3(a)

$$\ddot{y} + 16y = 0 \quad \text{where: } y(0) = -10 \text{ and } \dot{y}(0) = 3$$

$$\begin{aligned}
 s^2 Y - sy(0) - \dot{y}(0) + 16Y &= 0 \\
 s^2 Y + 10s - 3 + 16Y &= 0
 \end{aligned}$$

$$Y(s) = \frac{3 - 10s}{s^2 + 4^2} = -10 \frac{s}{s^2 + 4^2} + \frac{3}{4} \frac{4}{s^2 + 4^2}$$

$$y(t) = -10 \cos 4t + \frac{3}{4} \sin 4t \quad \#$$

3(b)

$$f(t) = \begin{cases} \sin t, & 0 \leq t < \pi \\ 0, & t \geq \pi \end{cases}$$

f(t) can be rewritten in term of **step functions** as:

$$f(t) = \sin t(u(t) - u(t - \pi)) = \sin t u(t) - \sin t u(t - \pi)$$

$$f(t) = \sin t u(t) + \sin(t - \pi) u(t - \pi)$$

$$\ell\{f(t)\} = \ell\{\sin t\} + \ell\{\sin(t - \pi) u(t - \pi)\}$$

$$F(s) = \frac{1}{s^2 + 1} + \frac{1}{s^2 + 1} e^{-s\pi} = \frac{e^{-s\pi} + 1}{s^2 + 1} \quad \#$$

4.

$$y + 3\dot{y} + 2y = r(t); \quad y(0) = 0 \text{ and } \dot{y}(0) = 0$$

From the figure, it can be written: $r(t) = 2u(t - 1) - 2u(t - 2)$

$$Y(s^2 + 2s + 1) = \frac{2}{s} e^{-s} - \frac{2}{s} e^{-2s}$$

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

Partial fractions: $\frac{1}{s(s^2 + 3s + 2)} = \frac{1}{s(s + 1)(s + 2)} = \frac{1/2}{s} + \frac{-1}{s + 1} - \frac{1/2}{s + 2}$

Therefore: $Y = \left(\frac{1/2}{s} + \frac{-1}{s + 1} + \frac{1/2}{s + 2} \right) 2e^{-s} - \left(\frac{1/2}{s} + \frac{-1}{s + 1} - \frac{1/2}{s + 2} \right) 2e^{-2s}$

$$\therefore y(t) = (1 - 2e^{-(t-1)} + e^{-2(t-1)})u(t - 1) - (1 - 2e^{-(t-2)} + e^{-2(t-2)})u(t - 2) \quad \#$$

Nirali Math 1 Answers

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Velavancorresponding**



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