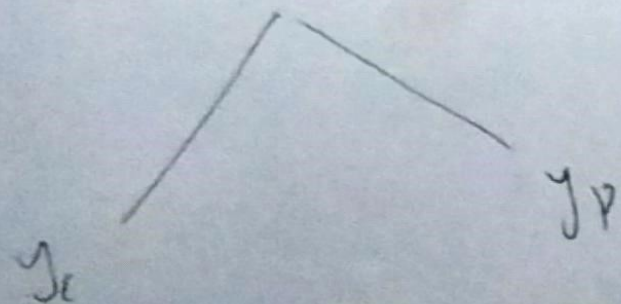


4.5

$$L(Y) = g(x)$$



$$L(y) = 0$$

(d)

$$5e^{-x} \sin 2x - 9e^{-x} \sin 2x = f(x)$$

$$\begin{aligned} n &= 1 \\ \alpha &= -1 \\ \beta &= 2 \end{aligned}$$

$$\left(D^2 - 2(-1)D + (-1)^2 + (2)^2 \right)' f(x)$$