

Integration and solutions are given below. (10 marks)

(a) Determine the general solution of the homogeneous case.

Let  $y_1 = e^{2x}$ ,  $y_2 = e^{-2x}$ . (2)

(b) Find general solution using method of undetermined coefficients.

(c) Write the particular solution for the given problem using method of undetermined coefficients.

$y_p = \frac{1}{4}e^{2x} + \frac{1}{4}e^{-2x}$ . (2)

(d) Determine the general solution using the above.

Answer: (a)

(b) Let  $y = e^{mx}$  be a particular solution. Substituting in the equation,

$m^2 y - 4y = 0 \Rightarrow m^2 - 4 = 0 \Rightarrow m = \pm 2$ . (2)

$y_1 = e^{2x}$ ,  $y_2 = e^{-2x}$  are the two independent solutions.

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$y_1 = e^{2x}$ ,  $y_2 = e^{-2x}$  are the two independent solutions.



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**Didier Musso**



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