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2. Determine the general solution of the differential equation

$$2\frac{\mathrm{d}^2y}{\mathrm{d}x^2} - 5\frac{\mathrm{d}y}{\mathrm{d}x} - 3y = 2\mathrm{e}^{3x}$$

(6)

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Question 2 continued

Q2

(Total 6 marks)