$$x = e^{-t} \sin 2t$$

show that

$$\frac{\mathrm{d}^2 x}{\mathrm{d}t^2} + 2\frac{\mathrm{d}x}{\mathrm{d}t} + 5x = 0$$

(8)

	Question 9 continued
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Question 9 continued

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		(Total for Question 9 is 8 marks)

