- 6 The curve C has equation $y = \frac{e^{(x^2+1)}}{x^2+1}$
 - (a) Show that $\frac{dy}{dx} = \frac{Kx^3e^{(x^2+1)}}{(x^2+1)^2}$ where *K* is a constant whose value is to be found.

(5)

(b) Find an equation of the tangent to C at the point on C where x = -1 Simplify your answer.

(5)

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Question 6 continued
(Total for Question 6 is 10 marks)

