

6 The curve C has equation $y = \frac{e^{(x^2+1)}}{x^2+1}$

(a) Show that $\frac{dy}{dx} = \frac{Kx^3 e^{(x^2+1)}}{(x^2+1)^2}$ 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

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(Total for Question 6 is 10 marks)

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