- 8 Given that  $2xy + 5y = e^x$ 
  - (a) show that  $\frac{dy}{dx} = \frac{y(2x+3)}{2x+5}$

(5)

(b) find the value of  $\frac{dy}{dx}$  when x = 0

(2)

(c) find an equation of the normal to the curve with equation  $2xy + 5y = e^x$  at the point where x = 0

Give your answer in the form px + qy + r = 0 where p, q and r are integers.

(3)


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Question 8 continued

