







[Maximum mark: 8]

The points A(0,1) and B(b,0) lie on the curve  $y^2e^x - xe^y = a$ 

- (a) Find the values of a and b.
- (b) Find the equation of the tangent line to the curve at point A.
- (c) Find the equation of the normal line to the curve at point B.

[2 marks]

[4 marks]

[2 marks]



