- 5 Given that $y = 3x\sqrt{2x-1}$ $x > \frac{1}{2}$
 - (a) show that $\frac{dy}{dx} = \frac{3(3x-1)}{\sqrt{2x-1}}$

(5)

The straight line *l* is the normal to the curve with equation $y = 3x\sqrt{2x-1}$ at the point on the curve where x = 1

(b) Find an equation, with integer coefficients, for l.

(6)



Question 5 continued	

Question 5 continued	
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(Total for Question 5 is 11 marks)	

