

The diagram shows the curves with equations  $y = 2(2x - 3)^4$  and  $y = (2x - 3)^2 + 1$  meeting at points A and B.

(a)	By using the substitution $u = 2x - 3$ find, by calculation, the coordinates of A and B. [4]

<b>(b)</b>	Find the exact area of the shaded region.	[5]
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