

**3**

$$f(x) = (2x + 1)(x^2 + 5x - 3)$$

(a) Show that  $f(x) = 2x^3 + 11x^2 - x - 3$  (2)

(b) Hence use algebra to solve the equation  $2x^3 + 11x^2 - x - 3 = 0$

Give your roots to 3 decimal places where appropriate. (3)

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**Question 3 continued**

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(Total for Question 3 is 5 marks)



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