

- 5 (a) Complete the table of values for $y = e^{3x-2}$ giving your answers to 2 decimal places.

x	0	0.25	0.5	0.75	1
y	0.14				2.72

(2)

- (b) On the grid opposite, draw the graph of $y = e^{3x-2}$ for $0 \leq x \leq 1$

(2)

- (c) By drawing a suitable straight line on the grid, obtain an estimate, to one decimal place, of the root of the equation $3x = 2 + \ln(3 - x)$

(3)

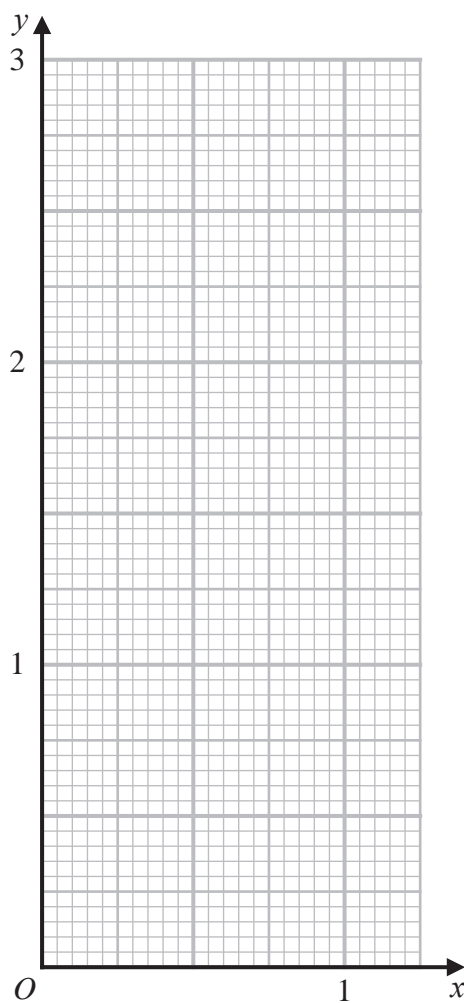
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Question 5 continued



Turn over for a spare grid if you need to redraw your graph.



Question 5 continued

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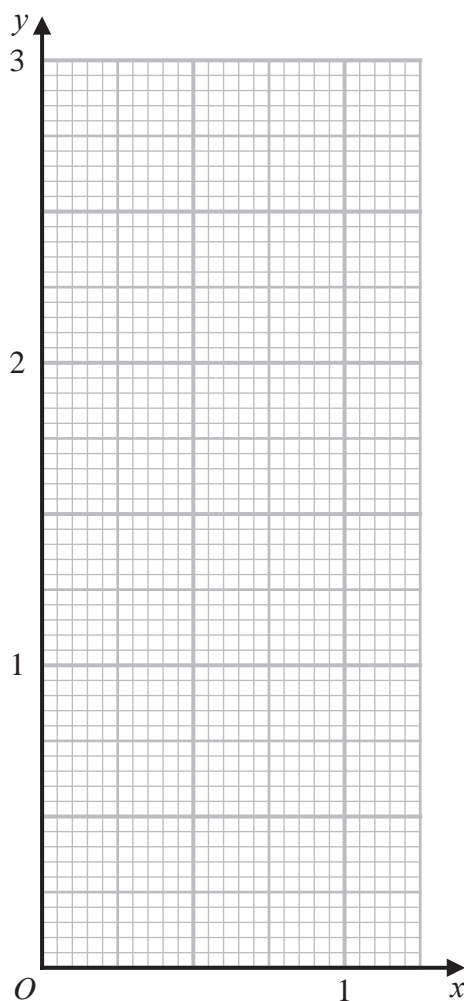
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Question 5 continued

Only use this grid if you need to redraw your graph.



(Total for Question 5 is 7 marks)

