2 (a) Complete the table of values for $y = x + \frac{6}{x^2}$

Give your answers to 2 decimal places where necessary.

x	1.0	1.25	1.5	1.75	2.0	2.25	2.5	2.75	3.0
y			4.17	3.71		3.44		3.54	3.67

(2)

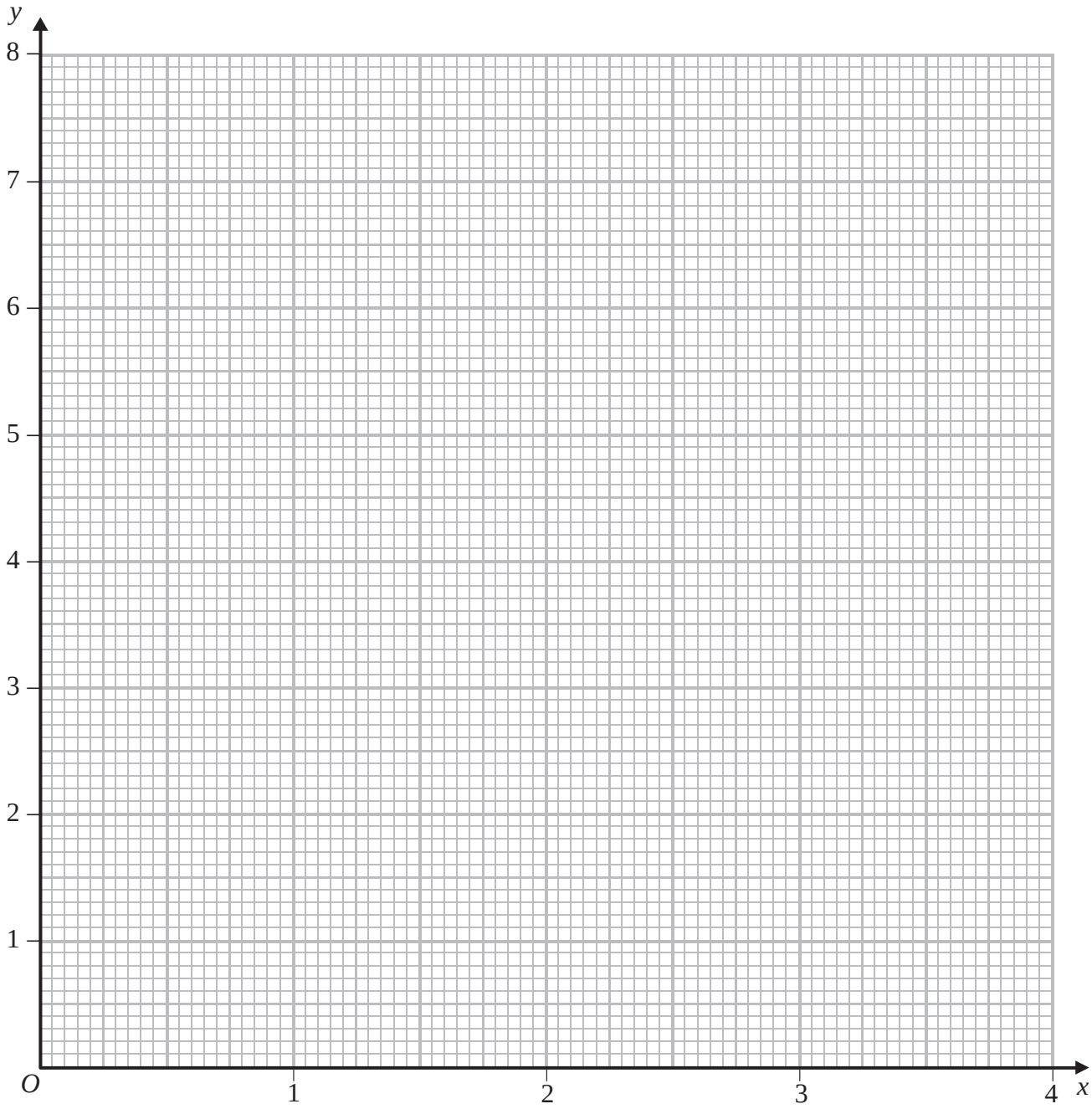
(b) On the grid opposite, draw the graph of $y = x + \frac{6}{x^2}$ for $1 \leqslant x \leqslant 3$

(2)

(c) By drawing a suitable straight line on the grid, obtain estimates, to 1 decimal place, for the solutions of the equation $x^3 - 3x^2 + 3 = 0$ in the interval $1 \leqslant x \leqslant 3$

(4)

Question 2 continued

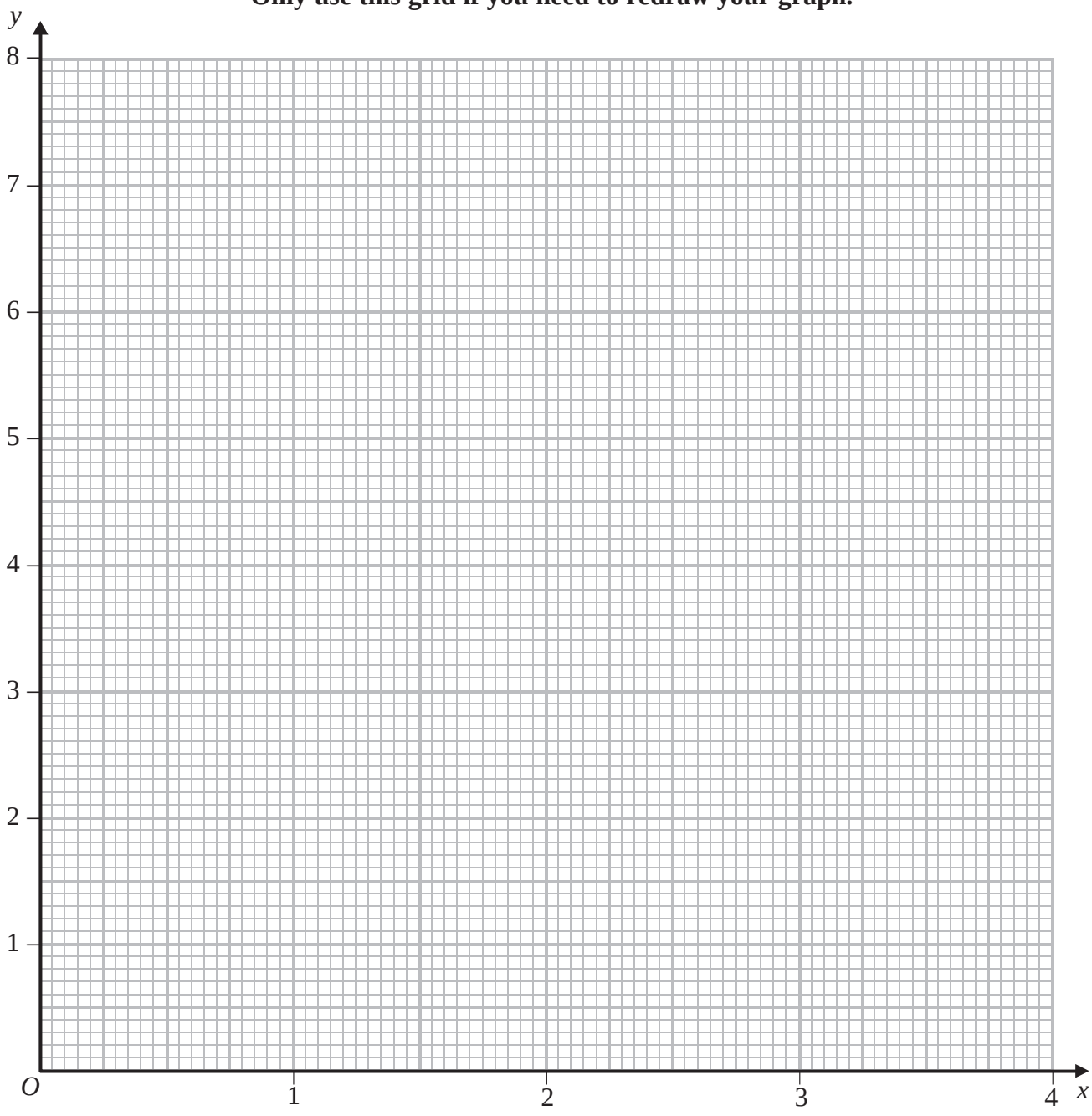


Turn over for a spare grid if you need to redraw your graph.

Question 2 continued

Question 2 continued

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



(Total for Question 2 is 8 marks)