

- 6 (a) Complete the table of values for

$$y = x - \frac{3}{x^2}$$

giving your answers to one decimal place where appropriate.

$x$	0.5	1	1.5	2	3	4	5	6
$y$	-11.5			1.3	2.7			5.9

(2)

- (b) On the grid opposite, draw the graph of  $y = x - \frac{3}{x^2}$  for  $0.5 \leq x \leq 6$

(2)

- (c) By drawing a suitable straight line on the grid, obtain estimates, to one decimal place, of each of the two roots of the equation

$$2x^3 - 6x^2 + 3 = 0$$

in the interval  $0.5 \leq x \leq 6$

(5)

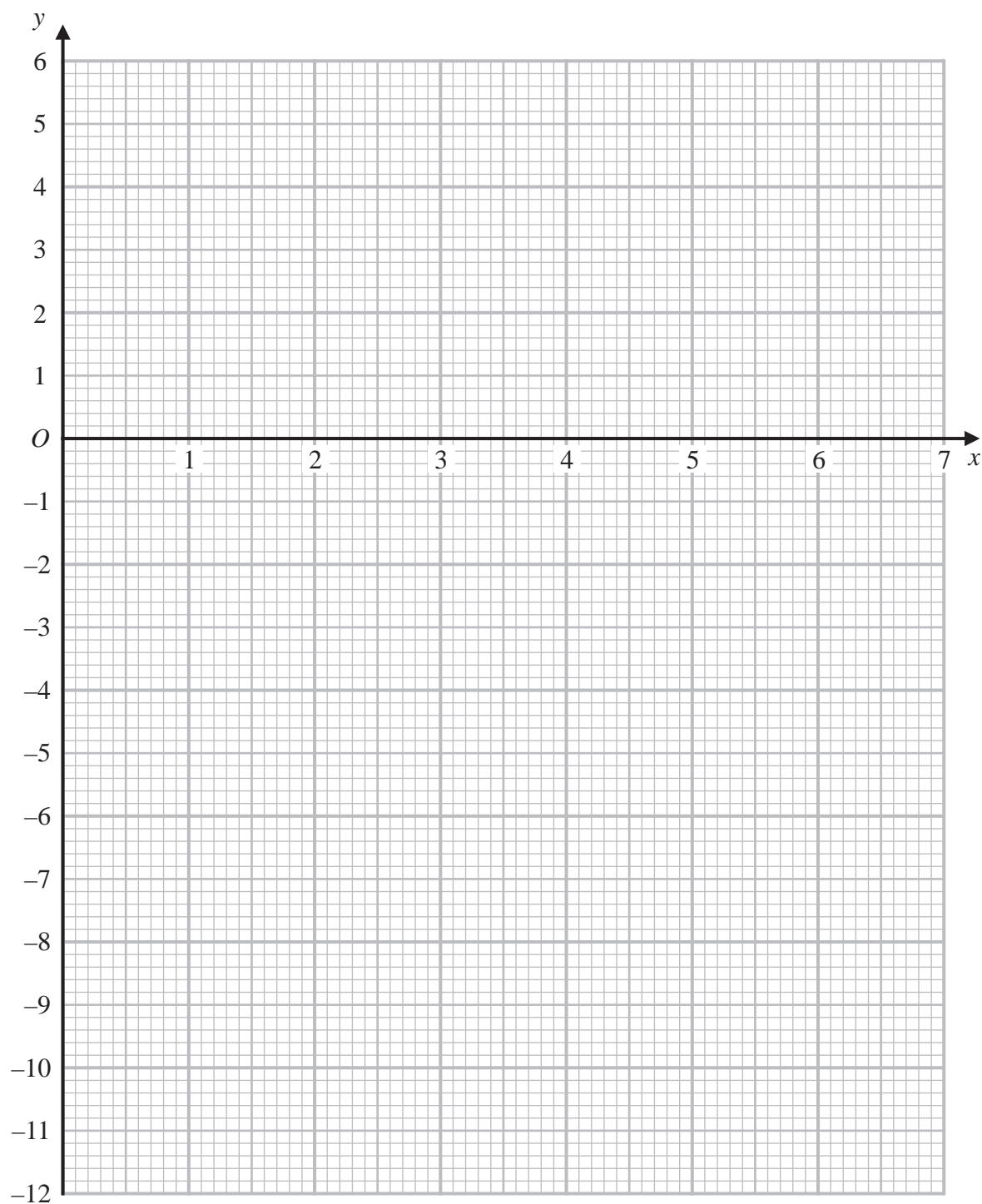
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



## Question 6 continued



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



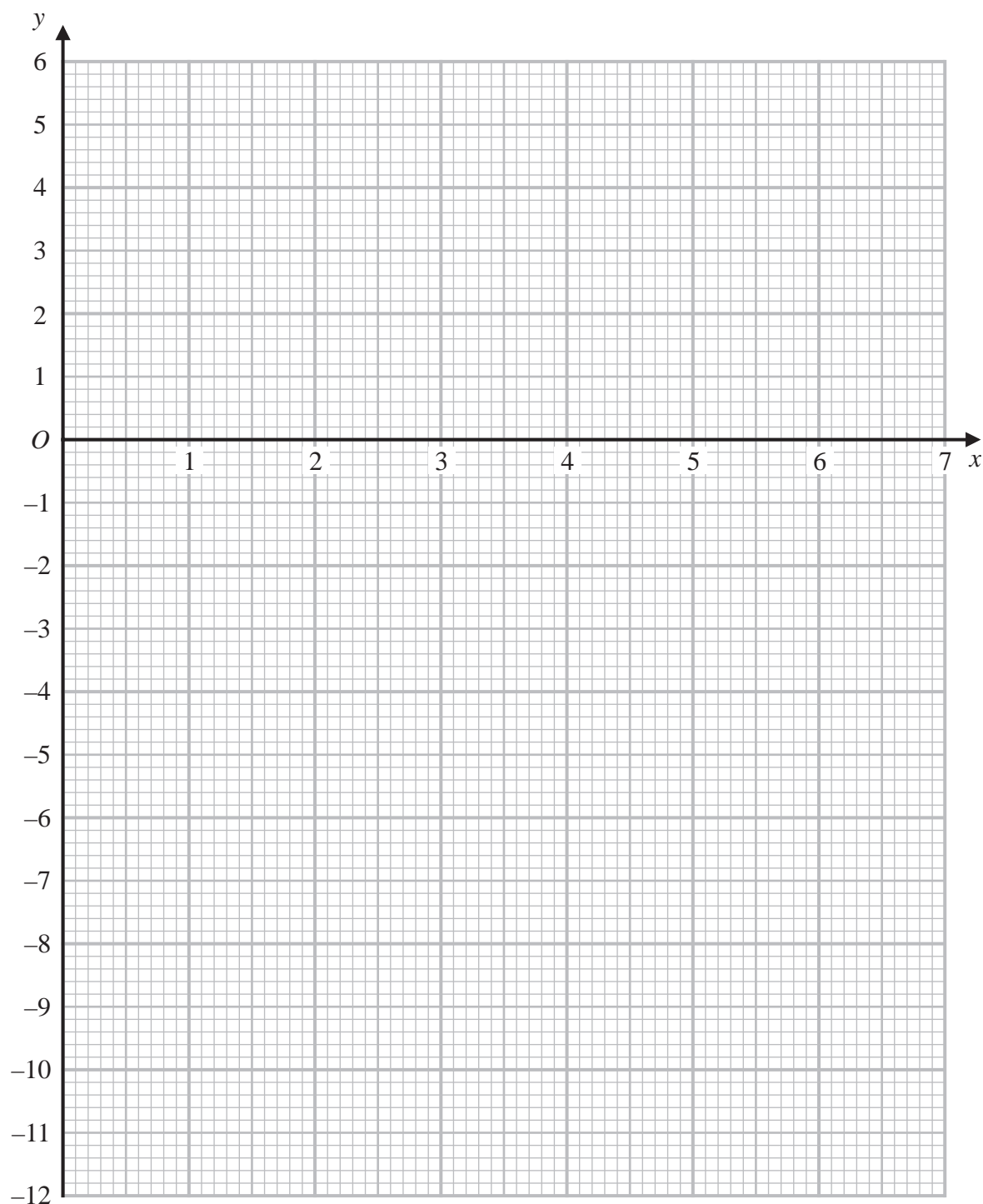
**Question 6 continued**

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



**Question 6 continued****Only use this grid if you need to redraw your graph.****(Total for Question 6 is 9 marks)**