7 (a) Complete the table of values for

$$y = 0.5^{\left(\frac{x}{3} + 1\right)} + 2$$

giving each value to 2 decimal places where appropriate.

х	-6	-5	-4	-3	-2	-1	0
у	4	3.59	3.26				2.5

(2)

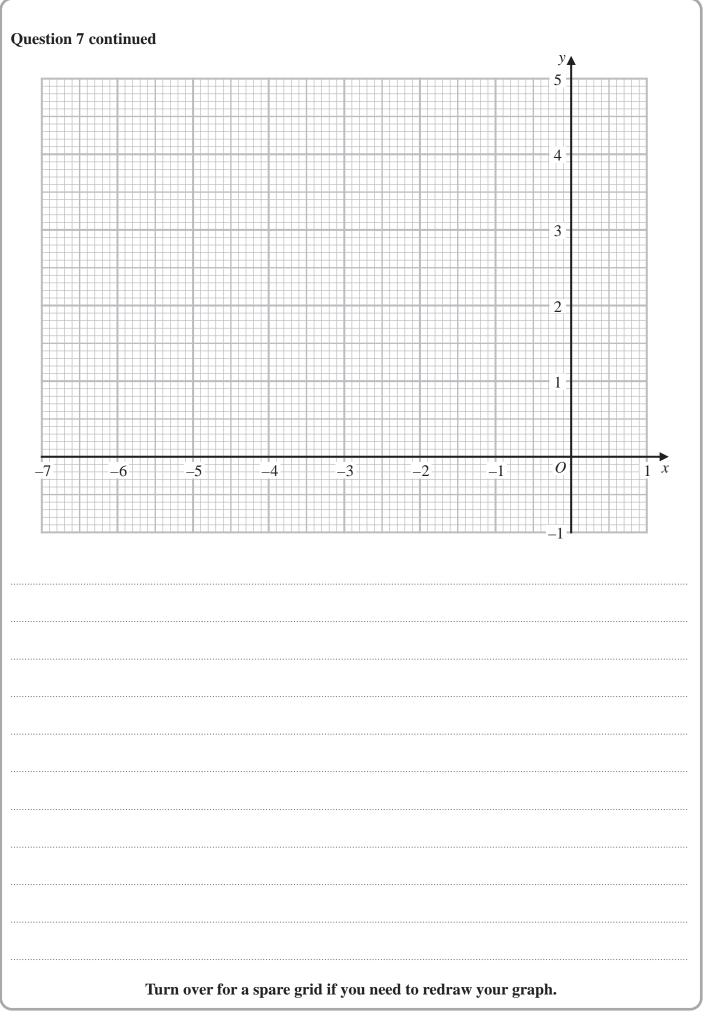
(b) On the grid opposite, draw the graph of
$$y = 0.5^{\left(\frac{x}{3}+1\right)} + 2$$
 for $-6 \le x \le 0$

(2)

(c) By drawing a suitable straight line on the grid, obtain an estimate, to one decimal place, of the root of the equation

$$\log_2(2x+2)^3 + x + 3 = 0$$
 in the interval $-6 \le x \le 0$

(6)





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Question 7 continued								

