

GRAPHICAL SOLUTION of EQUATIONS P/Q's

Examiner
only

①

The table shows the values of $y = 2x^2 + x - 3$ for values of x from -3 to 3 .

x	-3	-2	-1	0	1	2	3
$y = 2x^2 + x - 3$	12	3	-2	-3	0	7	18

(a) On the graph paper opposite, draw the graph of $y = 2x^2 + x - 3$ for values of x between -3 and 3 .

[2]

(b) Draw the line $y = 6$ on your graph paper and write down the x -values of the points where your two graphs intersect.

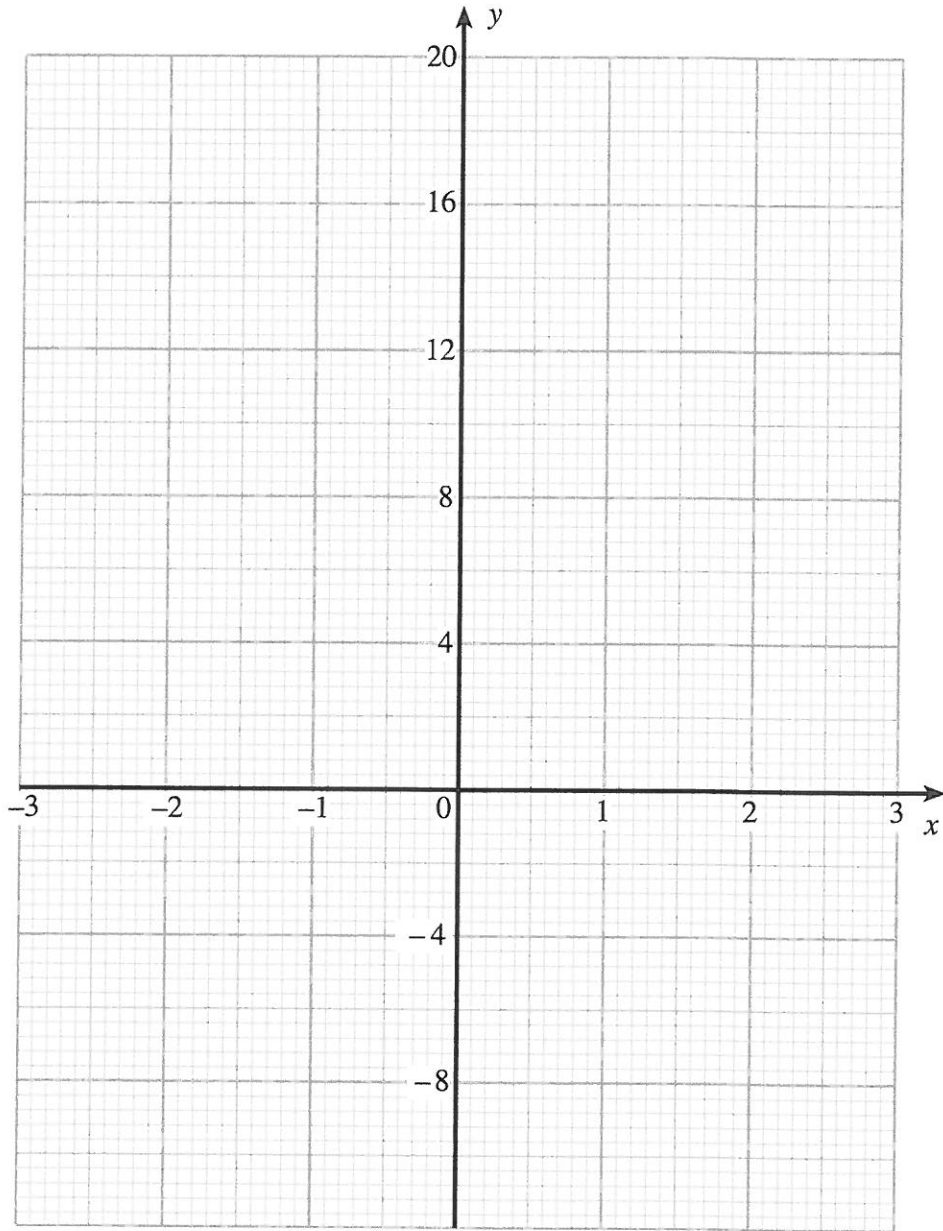
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[2]



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The table shows some of the values of $y = x^3 - 8$ for values of x from -2 to 4 .

(a) Complete the table by finding the values of y for $x = -1$ and $x = 3$.

x	-2	-1	0	1	2	3	4
$y = x^3 - 8$	-16		-8	-7	0		56

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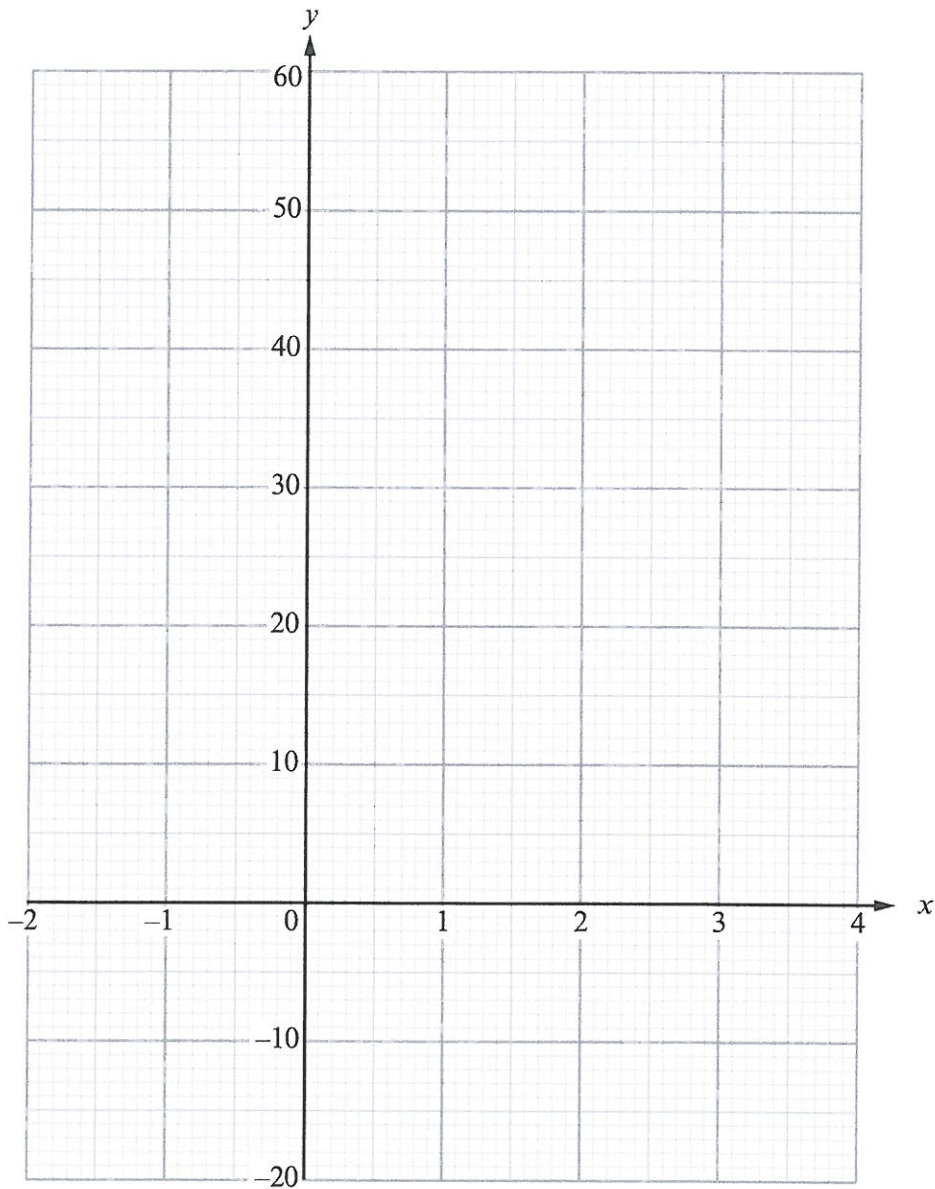
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[2]

(b) On the graph paper below, draw the graph of $y = x^3 - 8$ for values of x from -2 to 4 .

[2]



(c) Use your graph to solve the equation $x^3 - 8 = 40$.

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[2]

