

# Drawing Other Graphs: Cubic/Reciprocal

## Question Paper

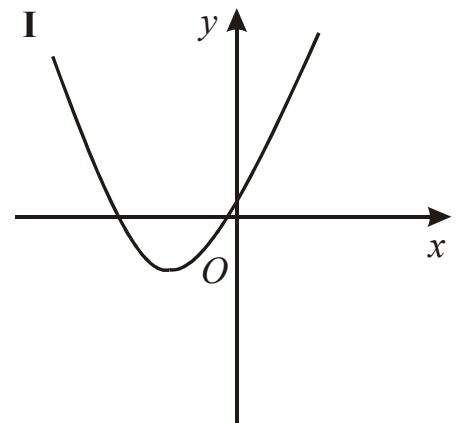
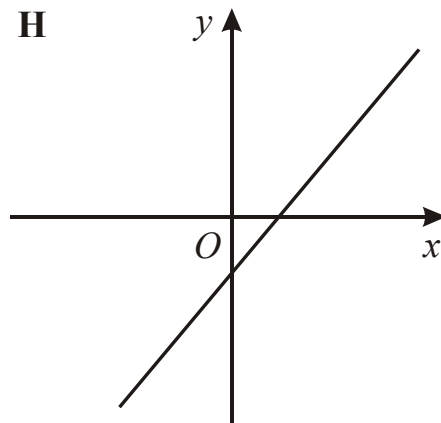
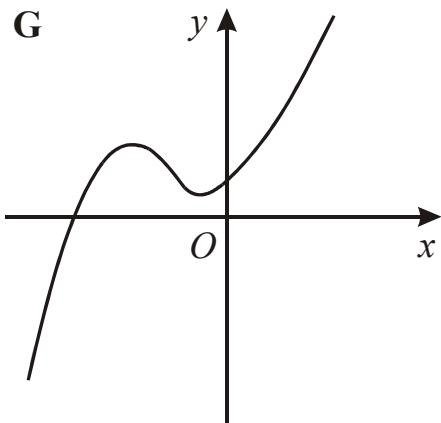
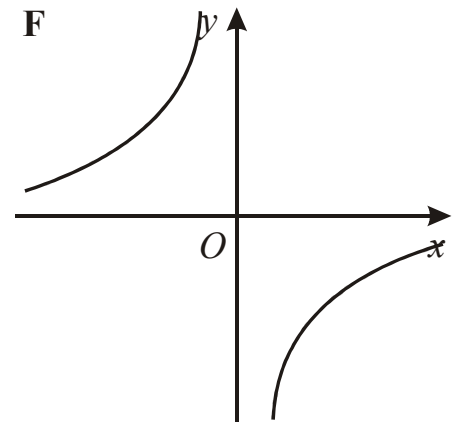
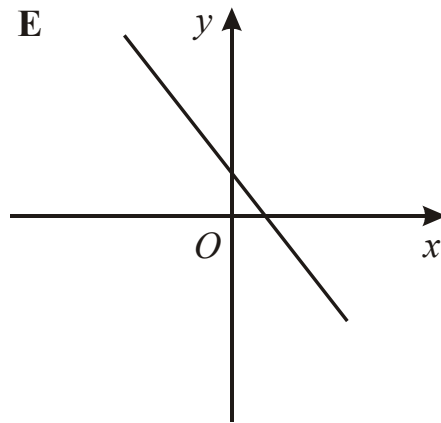
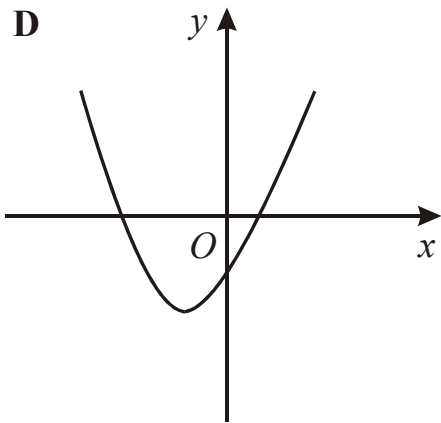
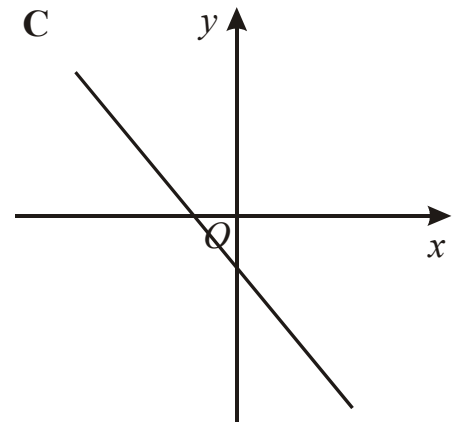
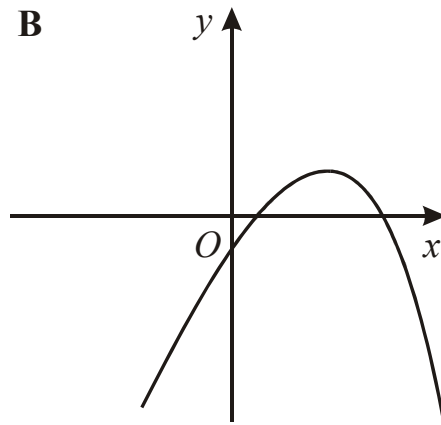
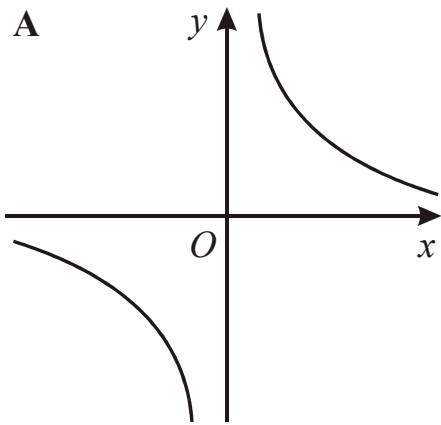
Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Drawing Other Graphs: Cubic/Reciprocal
Grade Level	Grade 5
Booklet	Question Paper

**Time Allowed:** 23 minutes

**Score:** /19

**Percentage:** /100

**Grade Boundaries:**



1. Write down the letter of the graph which could have the equation

(i)  $y = 3x - 2$  ..... (1)

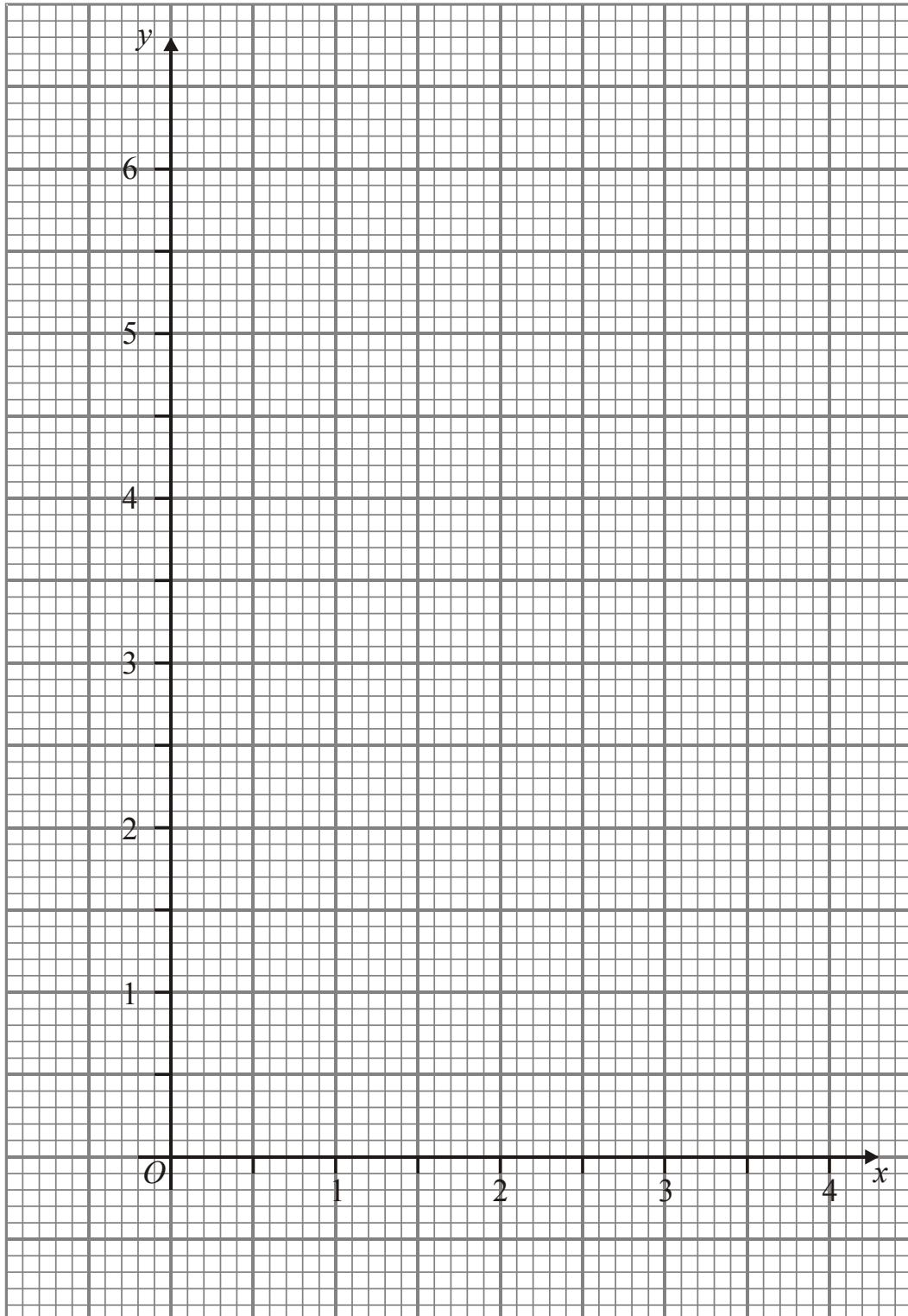
(ii)  $y = 2x^2 + 5x - 3$  ..... (1)

(iii)  $y = \frac{3}{x}$  ..... (1)

2.(a) Complete the table of values for  $y = \frac{1}{x}$  (2)

$x$	0.2	0.4	0.8	1.0	2.0	4.0
$y$	5.0		1.25	1.0		

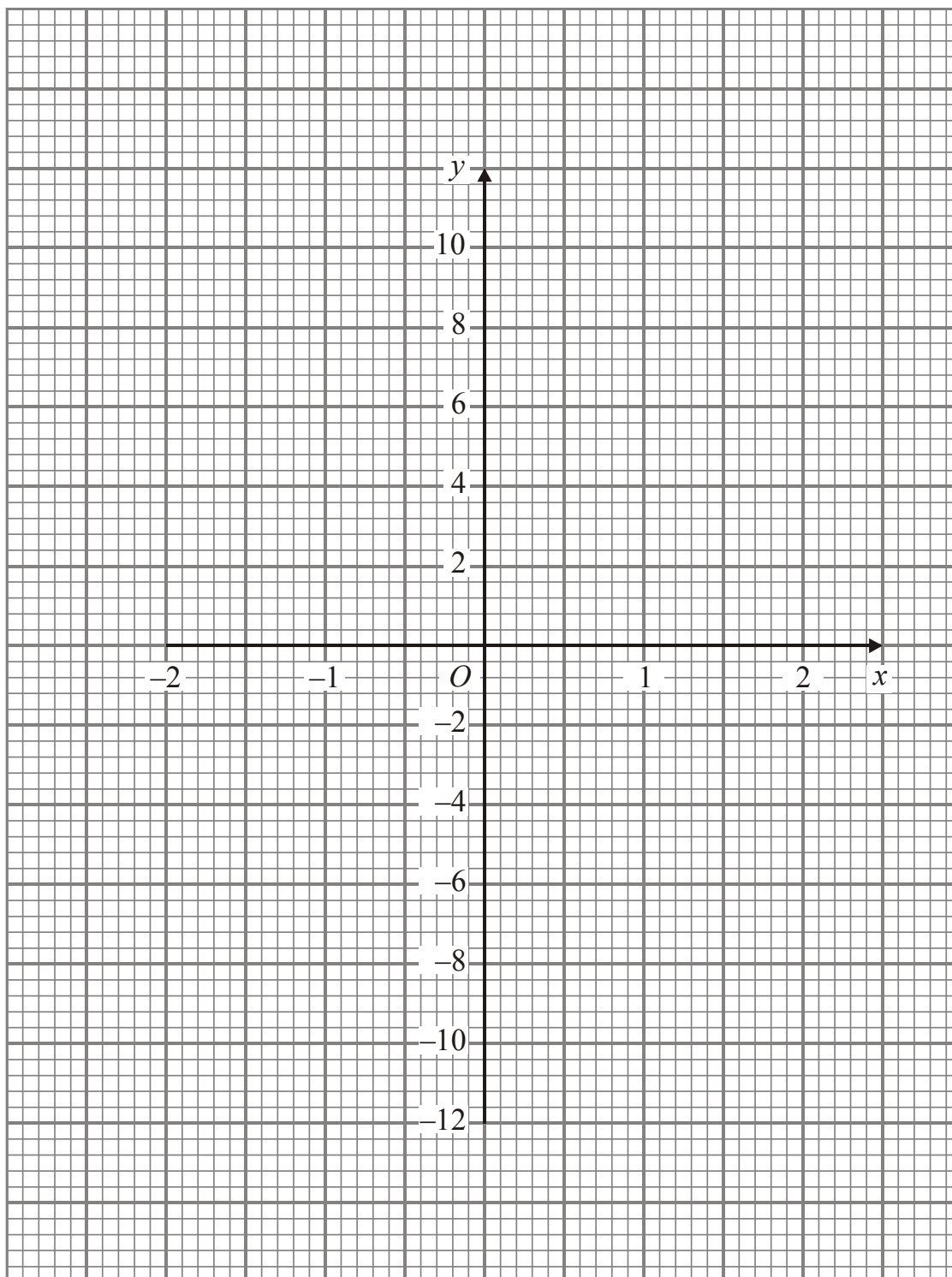
b) On the grid, draw the graph of  $y = \frac{1}{x}$  (2)



3.(a) Complete the table of values for  $y = x^3 + x - 2$

$x$	-2	-1	0	1	2
$y$	-12			0	

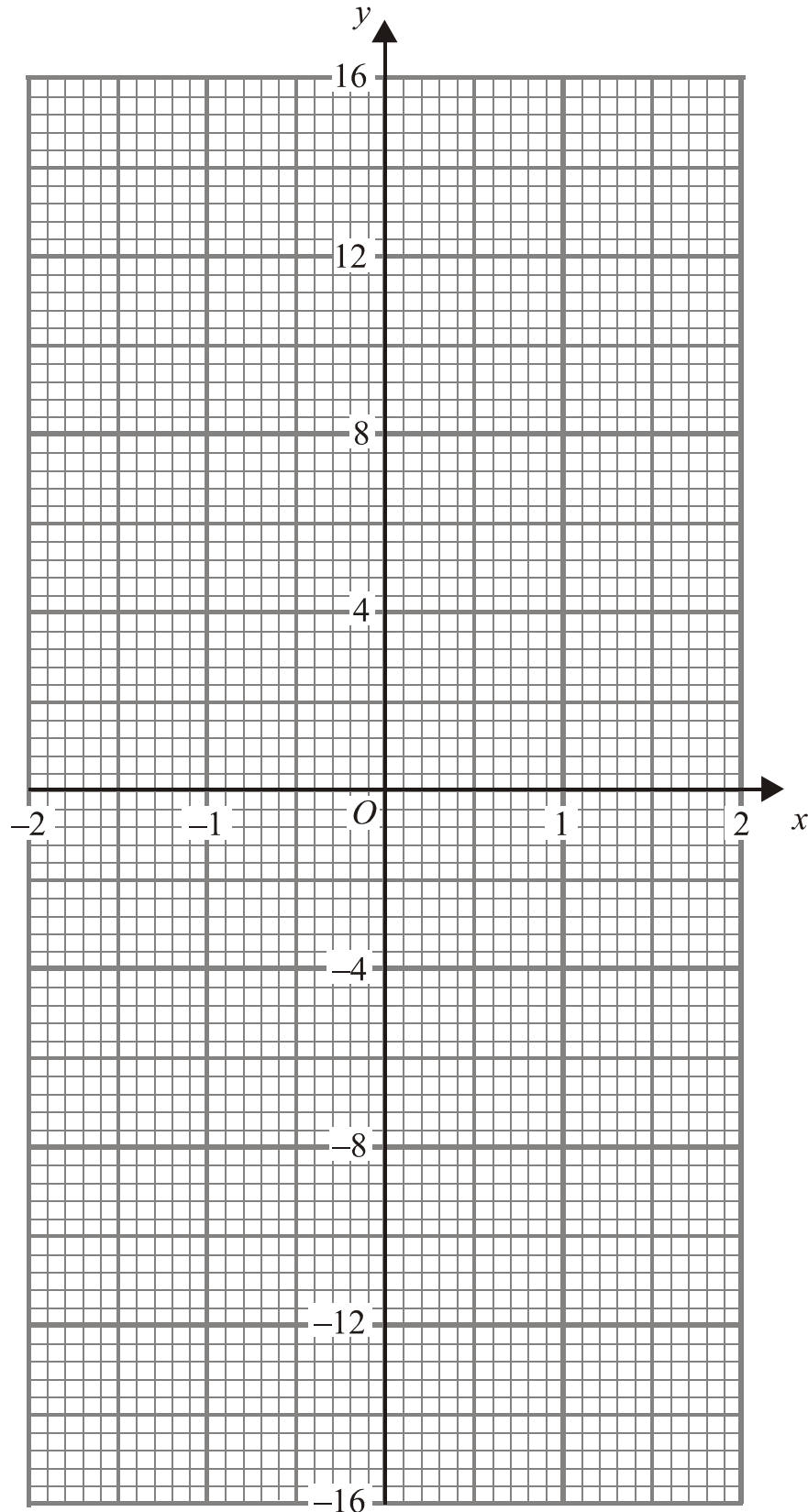
b) On the grid, draw the graph of  $y = y = x^3 + x - 2$



4.(a) Complete the table of values for  $y = x^3 + 3x$  (2)

$x$	-2	-1	0	1	2
$y$	-14		0		

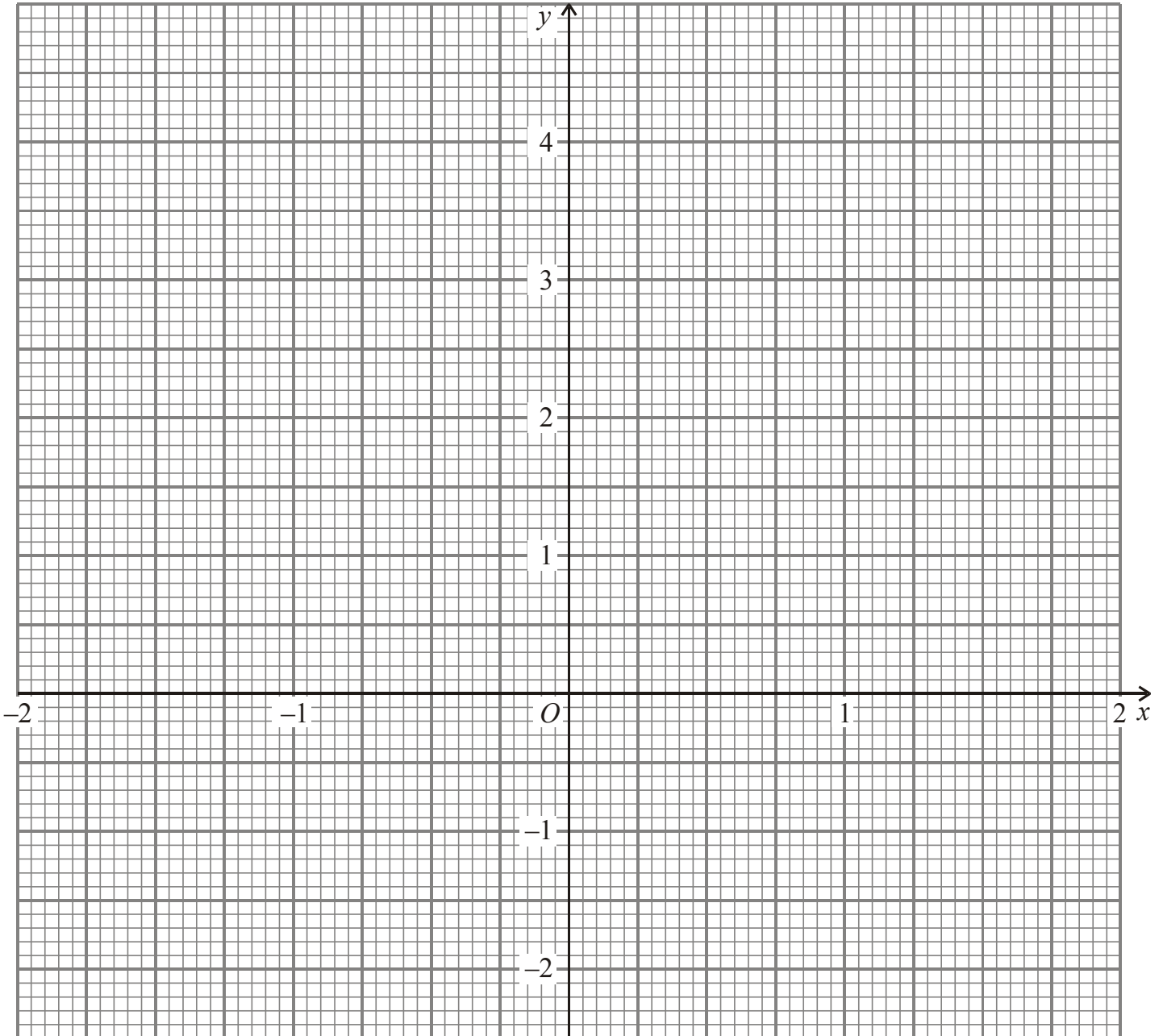
b) On the grid, draw the graph of  $y = y = x^3 + 3x$  (2)



5.(a) Complete the table of values for  $y = x^3 - 3x + 1$  (2)

$x$	-2	-1.5	-1	-0.5	0	0.5	1	1.5	2
$y$	-1		3	2.375	1	-0.375		-0.125	3

b) On the grid, draw the graph of  $y = y = x^3 - 3x + 1$  (2)



6.(a) Complete the table of values for  $y = x + \frac{1}{x}$  (2)

$x$	0.2	0.4	0.6	0.8	1	2	4	5
$y$	5.2				2		4.25	5.2

b) On the grid, draw the graph of  $y = x + \frac{1}{x}$  (2)

