

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

(i) $y = 3x - 2$

.....*H*..... (1)

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

.....*D*..... (1)

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

.....*A*..... (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	2.5	1.25	1.0	0.5	0.25

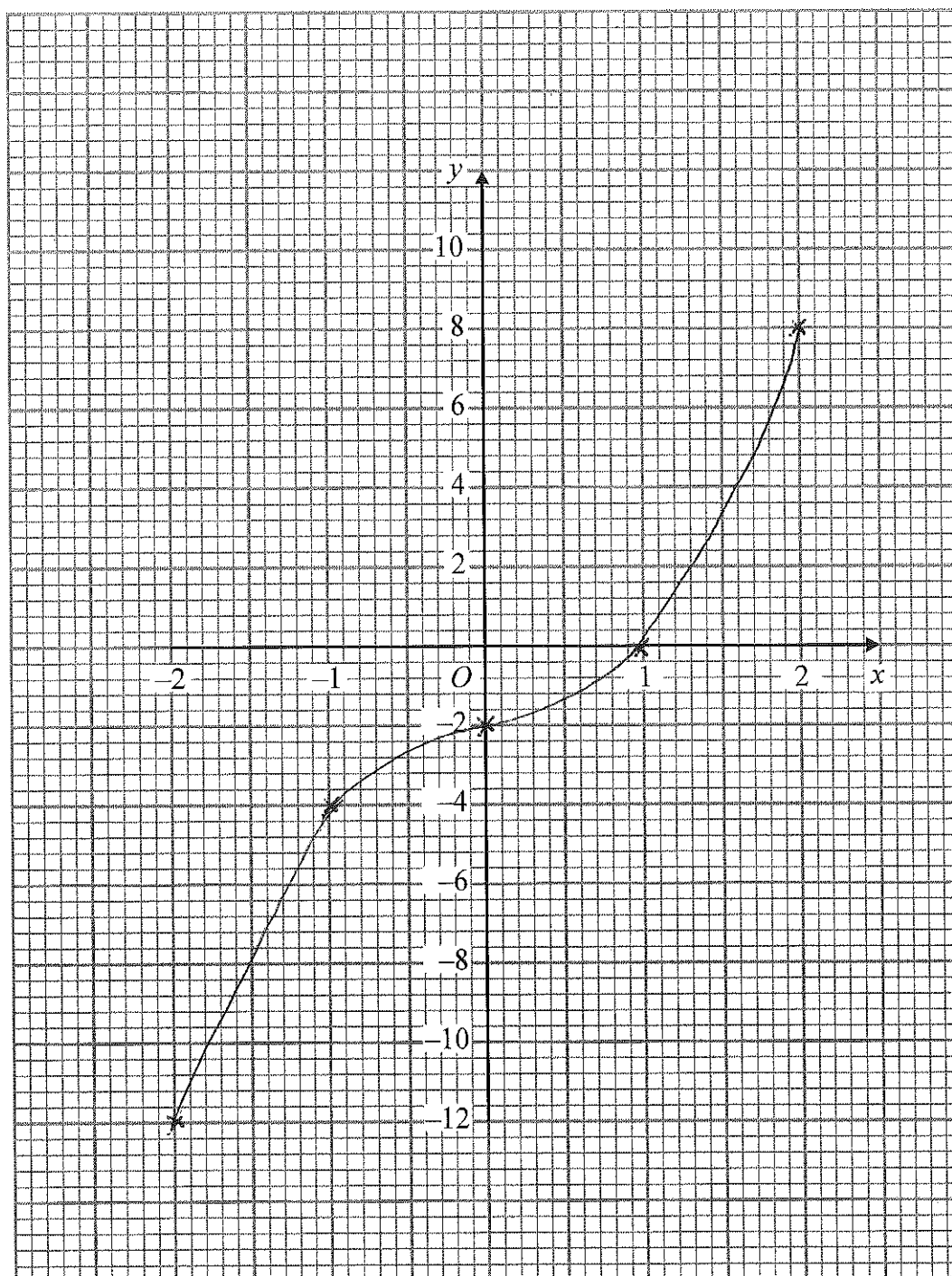
b) On the grid, draw the graph of $y = \frac{1}{x}$ (2)



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

x	-2	-1	0	1	2
y	-12	-4	-2	0	8

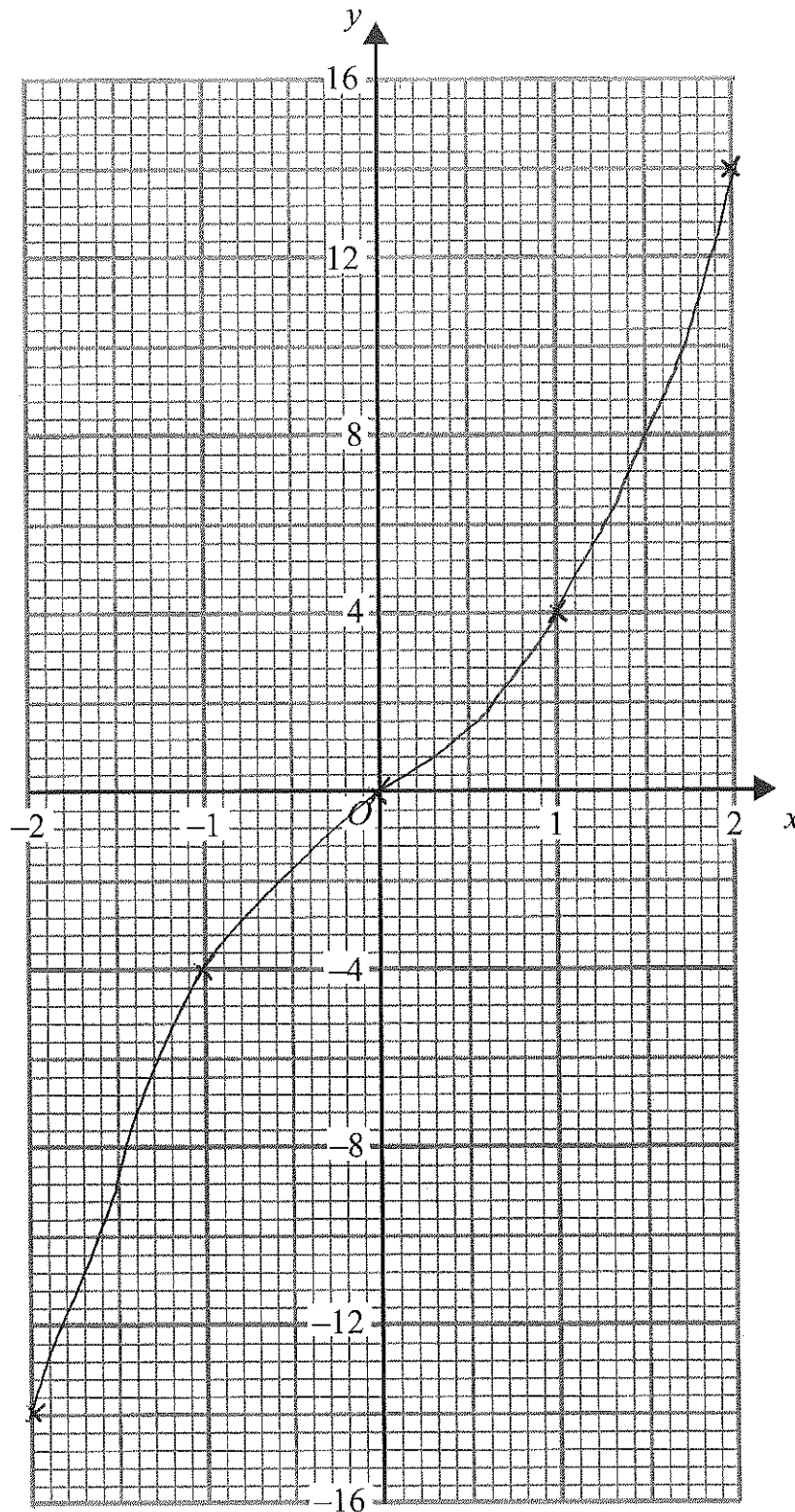
b) On the grid, draw the graph of $y = y = x^3 + x - 2$



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

x	-2	-1	0	1	2
y	-14	-4	0	4	14

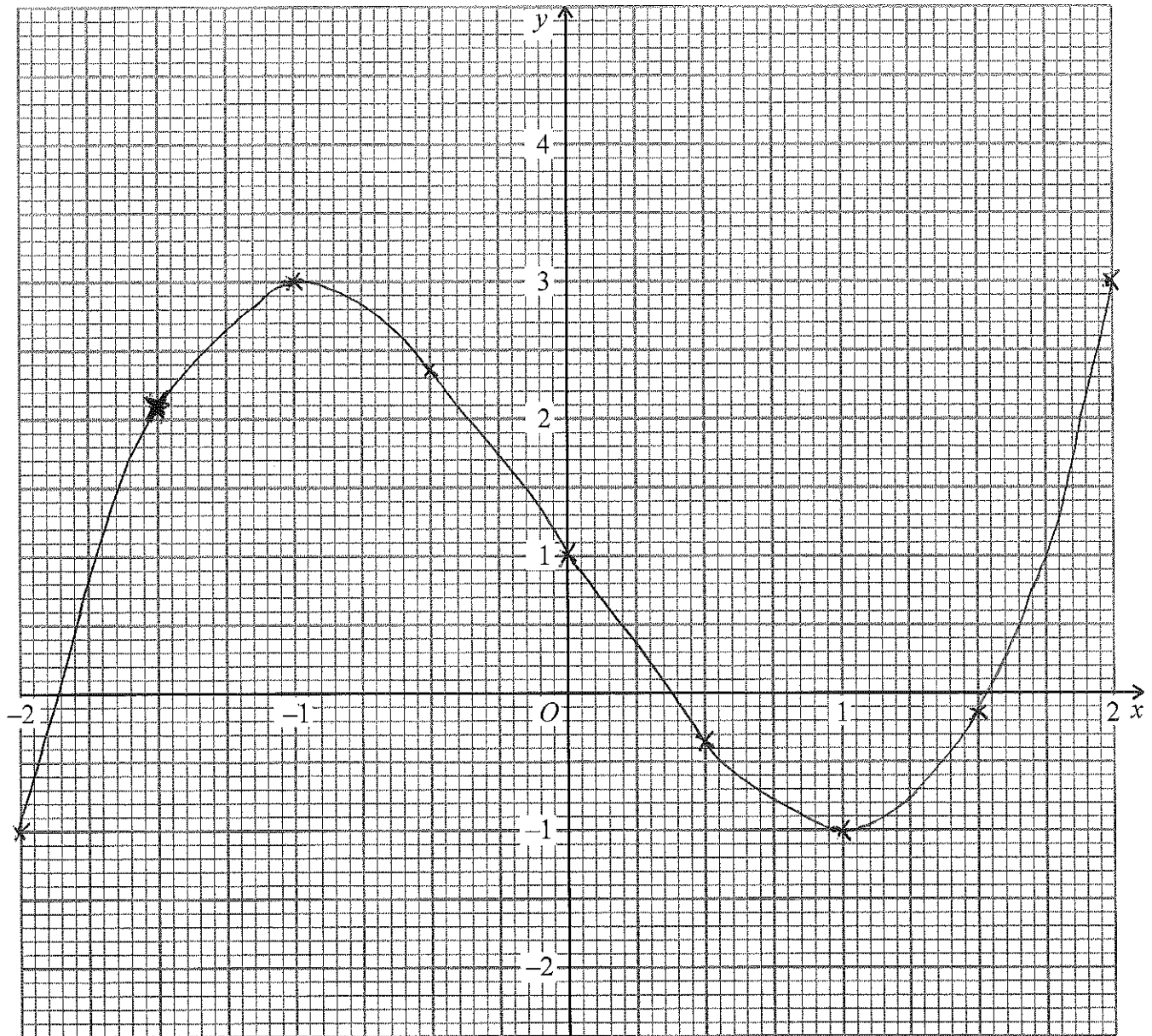
b) On the grid, draw the graph of $y=y=x^3+3x$ (2)



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	2.125	3	2.375	1	-0.375	-1	-0.125	3

b) On the grid, draw the graph of $y = x^3 - 3x + 1$ (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	2.9	2.27	2.05	2	2.5	4.25	5.2

(200)

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

