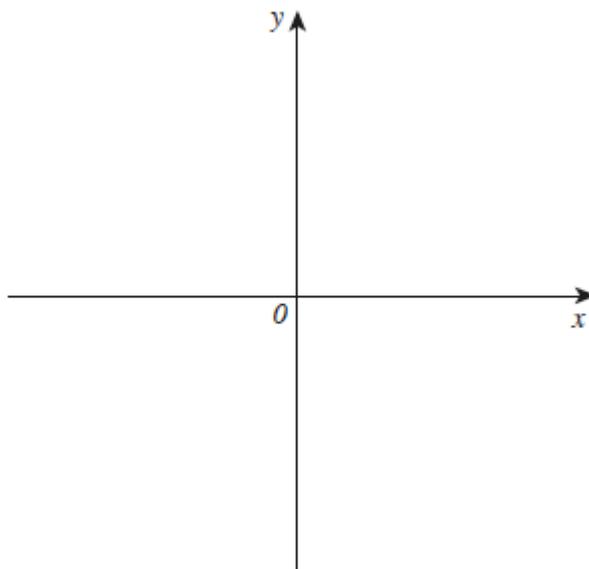


Non-Calculator

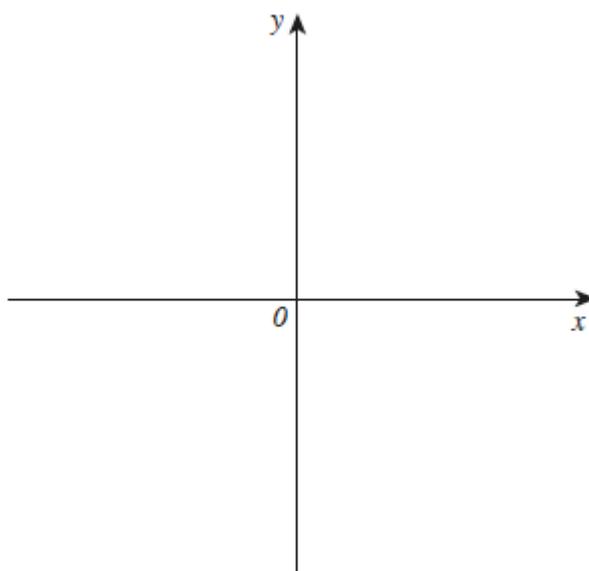
Q1.

- (a) Sketch the graph of $y = x^3$



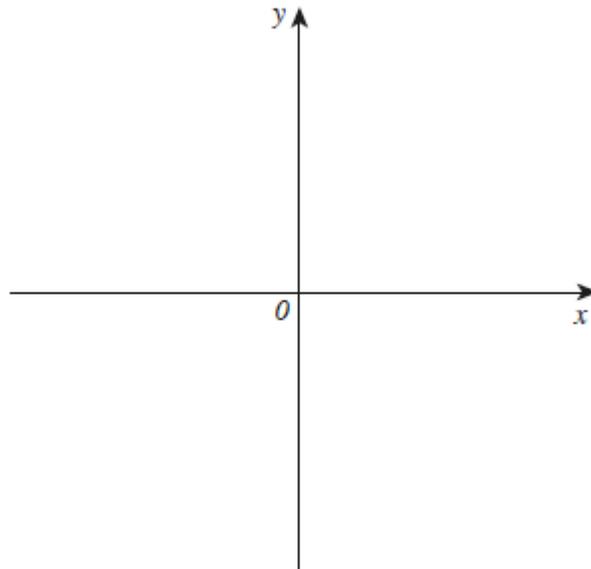
(1)

- (b) Sketch the graph of $y = x^2 + 3$



(1)

(c) Sketch the graph of $y = \frac{1}{x}$



(1)
(Total 3 marks)

Calculator

Q2.

Circle the point that does not lie on the curve $y = x^3$

$$\left(-\frac{1}{2}, -\frac{1}{8}\right)$$

$$(5, 125)$$

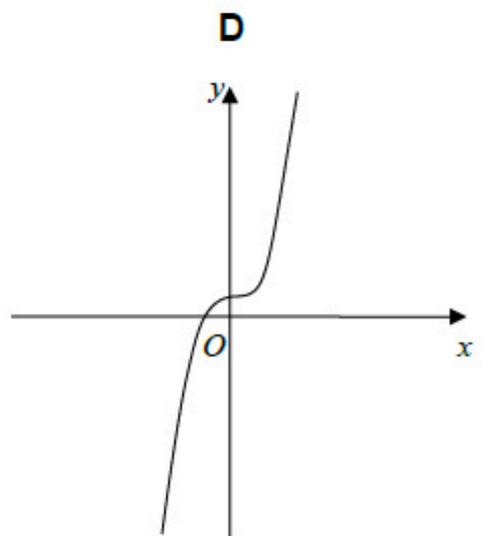
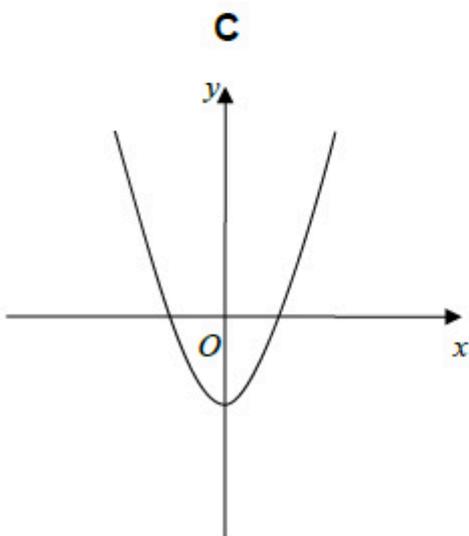
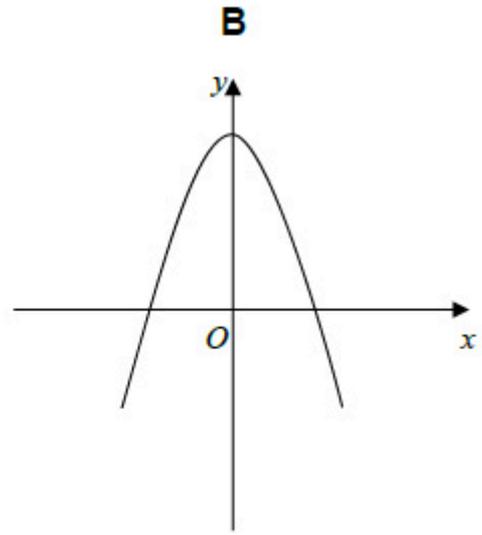
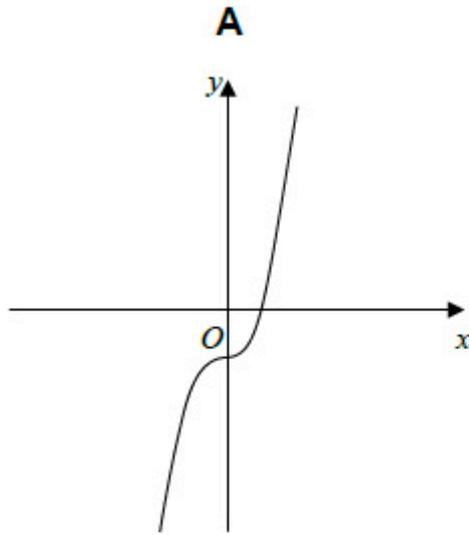
$$\left(\frac{1}{3}, \frac{1}{9}\right)$$

$$(-1, -1)$$

(Total 1 mark)

Q3.

One of these is a sketch of $y = x^3 + 2$
Which one?
Circle the correct letter.



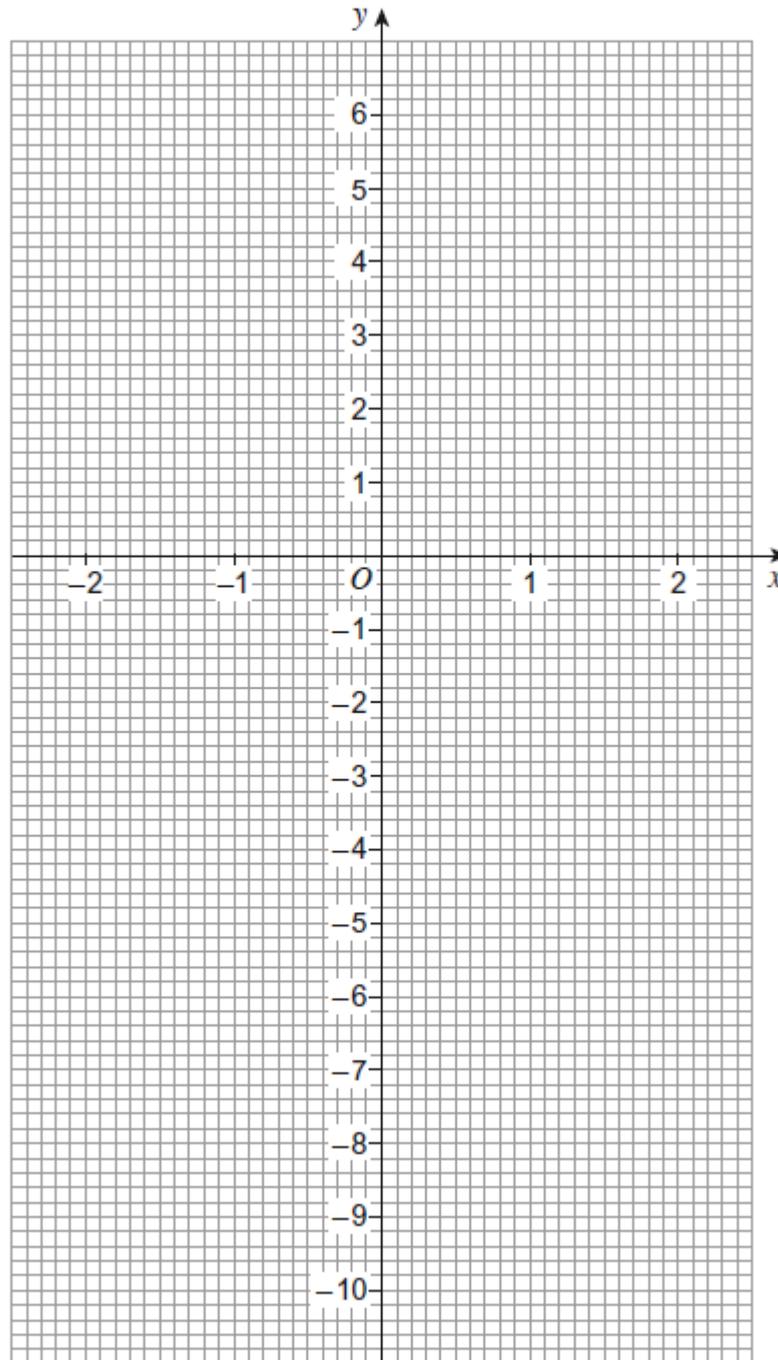
(Total 1 mark)

Q4.

Here is a table of values for $y = x^3 - 2$ for $x = -2$ to 2

x	-2	-2	0	1	2
y	-10	-3	-2	-1	6

Draw the graph of $y = x^3 - 2$ for values of x from -2 to 2



(Total 2 marks)

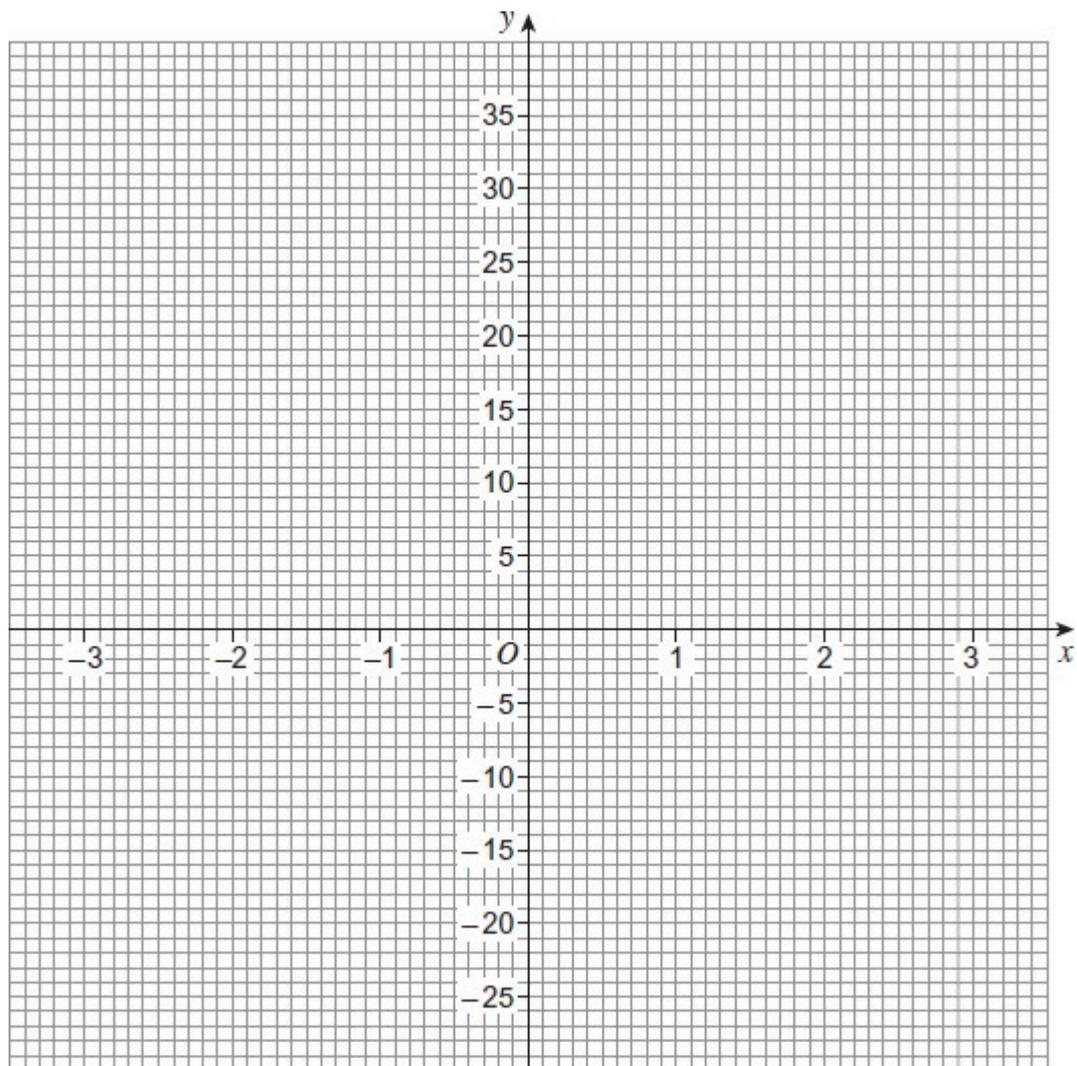
Q5.

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

x	-3	-2	-1	0	1	2	3
y	-22		4	5	6	13	

(2)

(b) On the grid, draw the graph of $y = x^3 + 5$ for values of x from -3 to 3



(2)

(Total 4 marks)