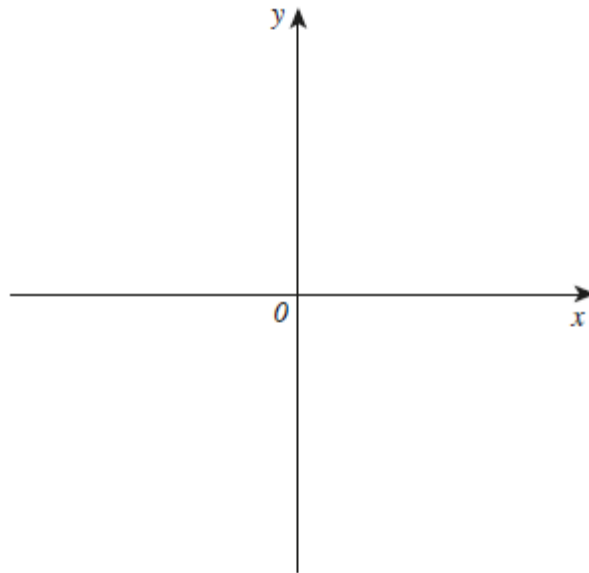


## Non-Calculator

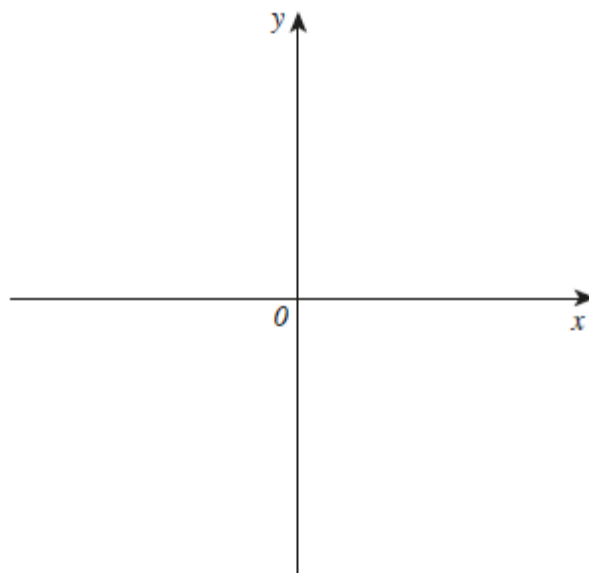
**Q1.**

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



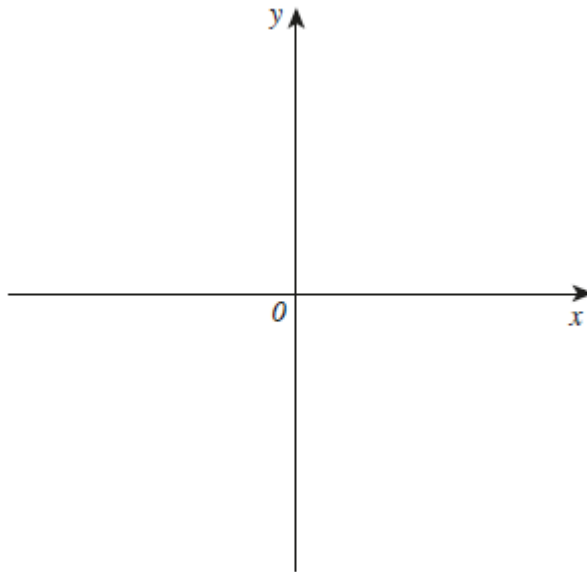
(1)

- (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  $y = x^3$

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

$$(5, 125)$$

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

$$(-1, -1)$$

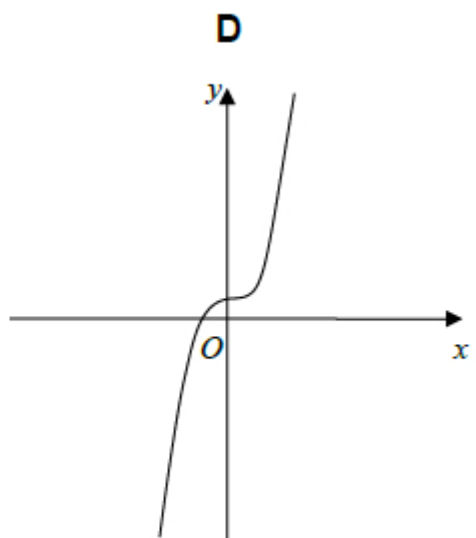
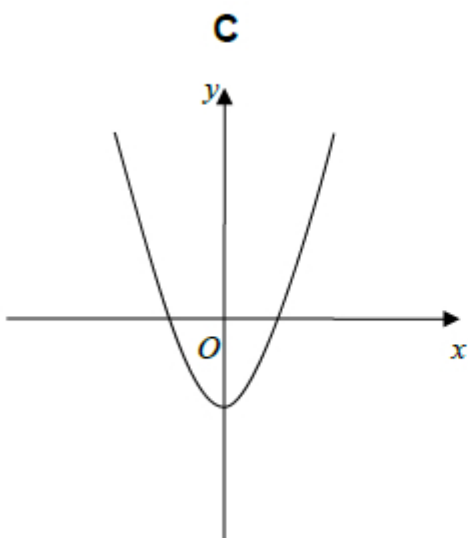
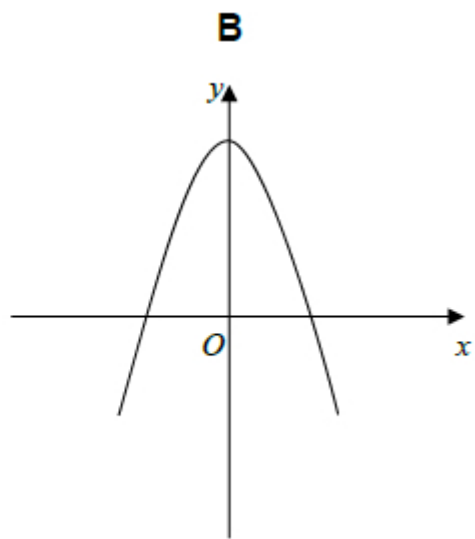
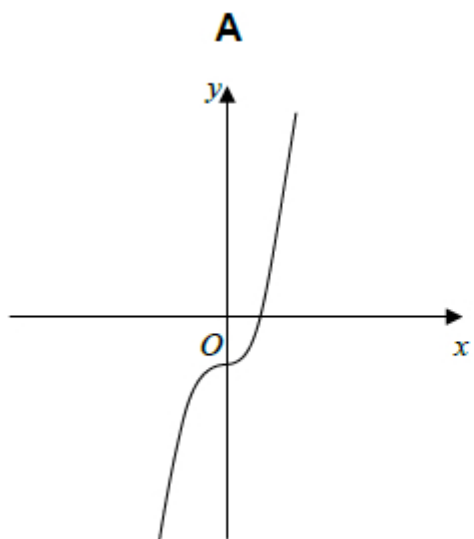
(Total 1 mark)

**Q3.**

One of these is a sketch of  $y = x^3 + 2$

Which one?

Circle the correct letter.



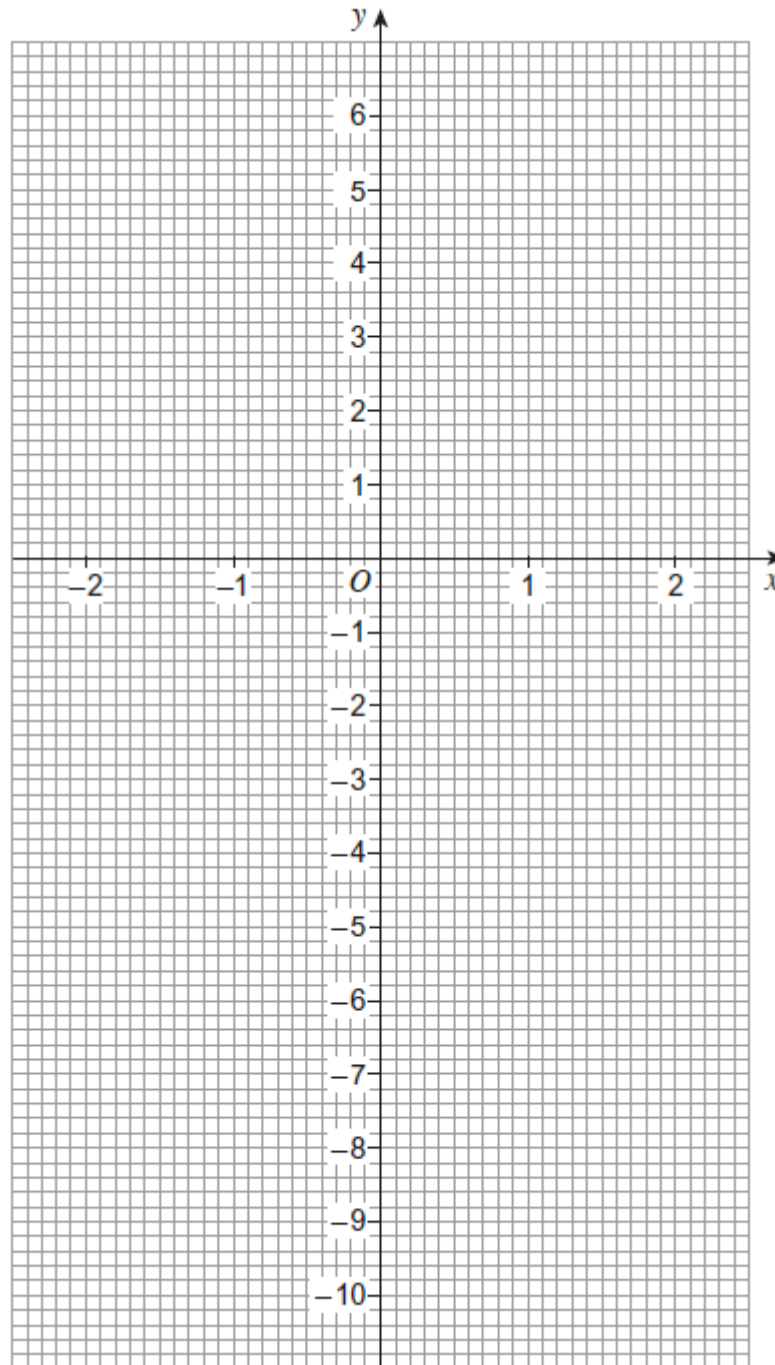
(Total 1 mark)

**Q4.**

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

$x$	-2	-1	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)

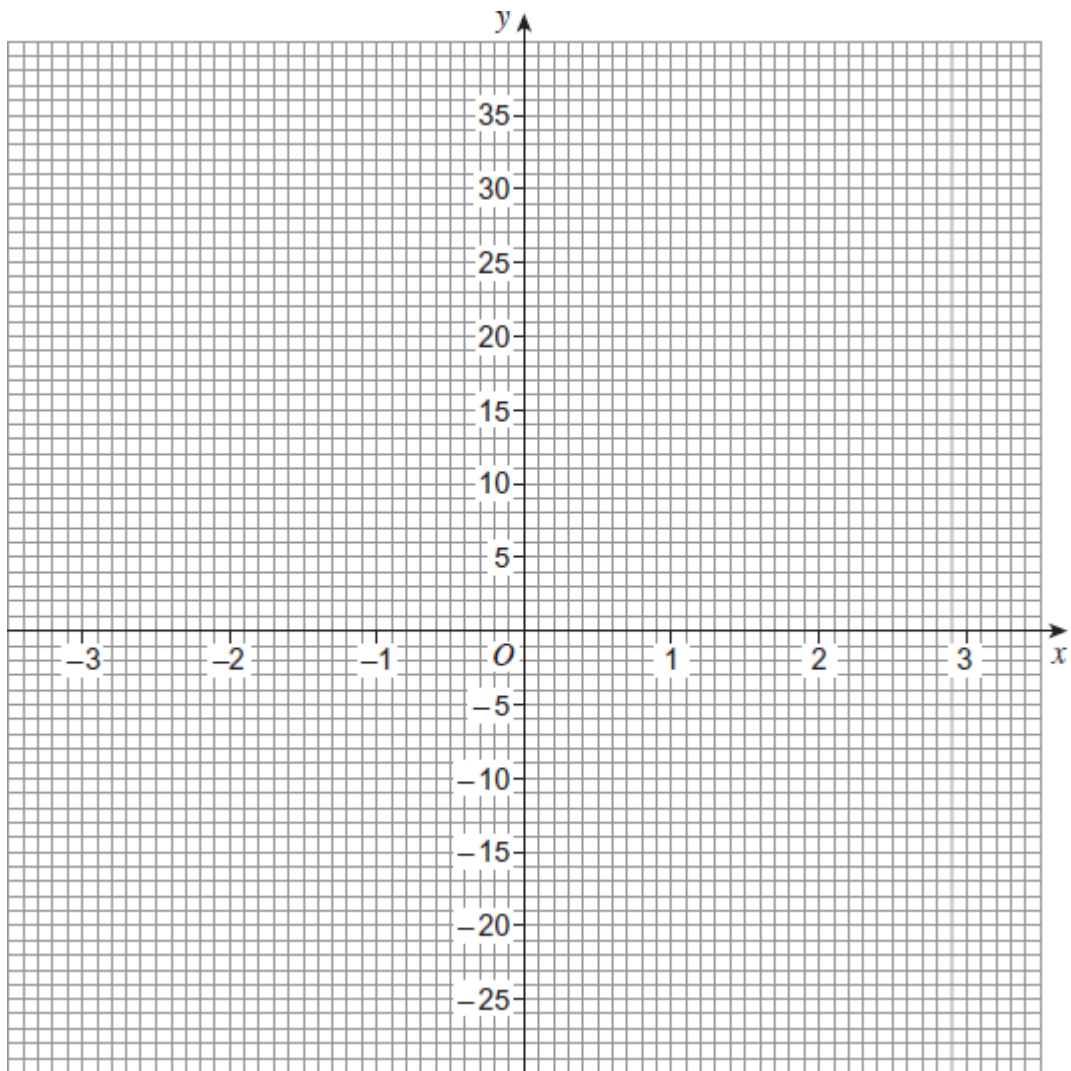
**Q5.**

(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)