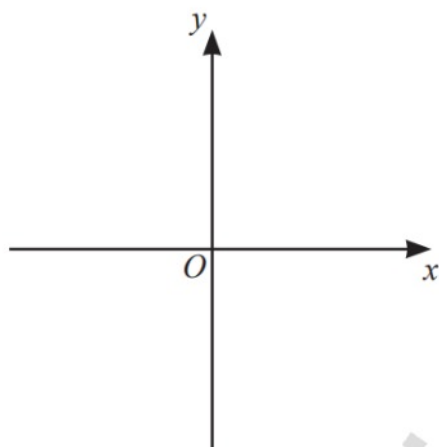


Q Sketching Graphs of Functions

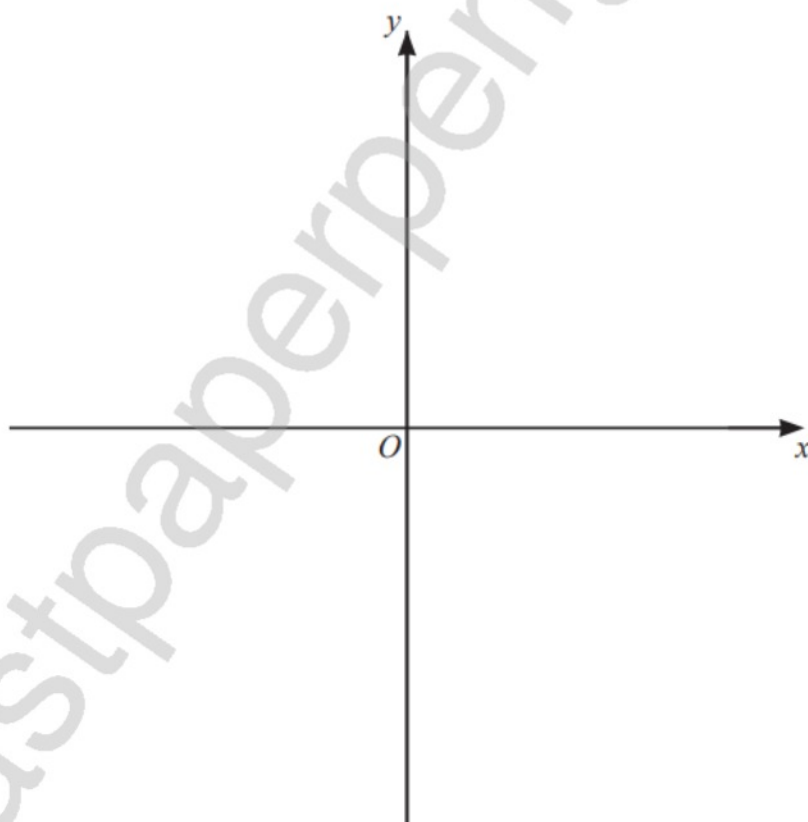
10 Sketch the graph of each function.

(a) $y = x - 3$



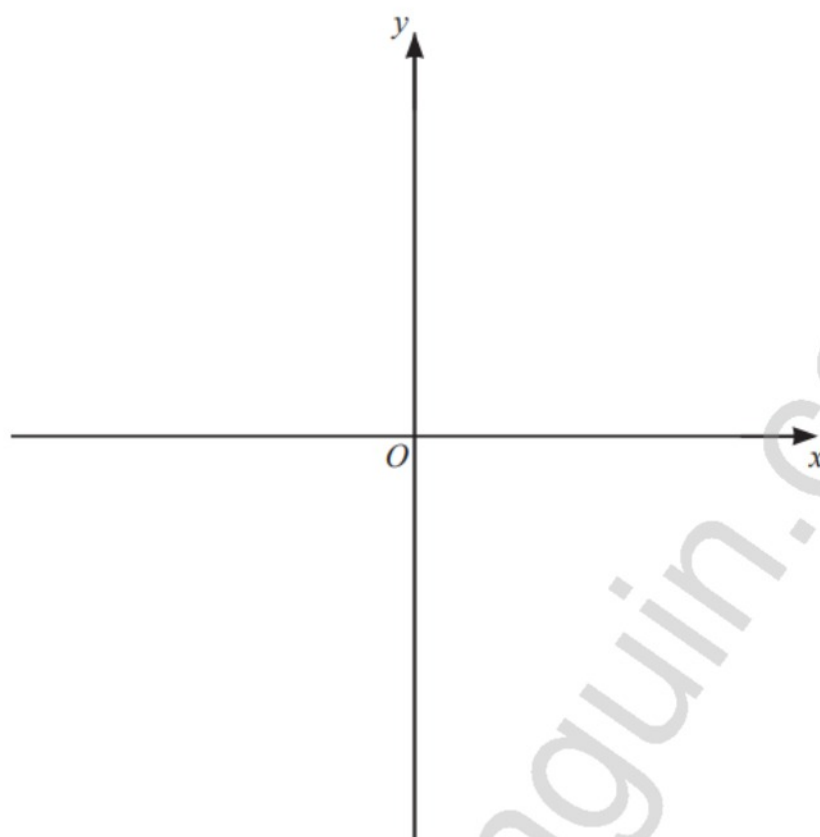
[1]

8 (a) On the axes, sketch the graph of $y = 4 - 3x$.

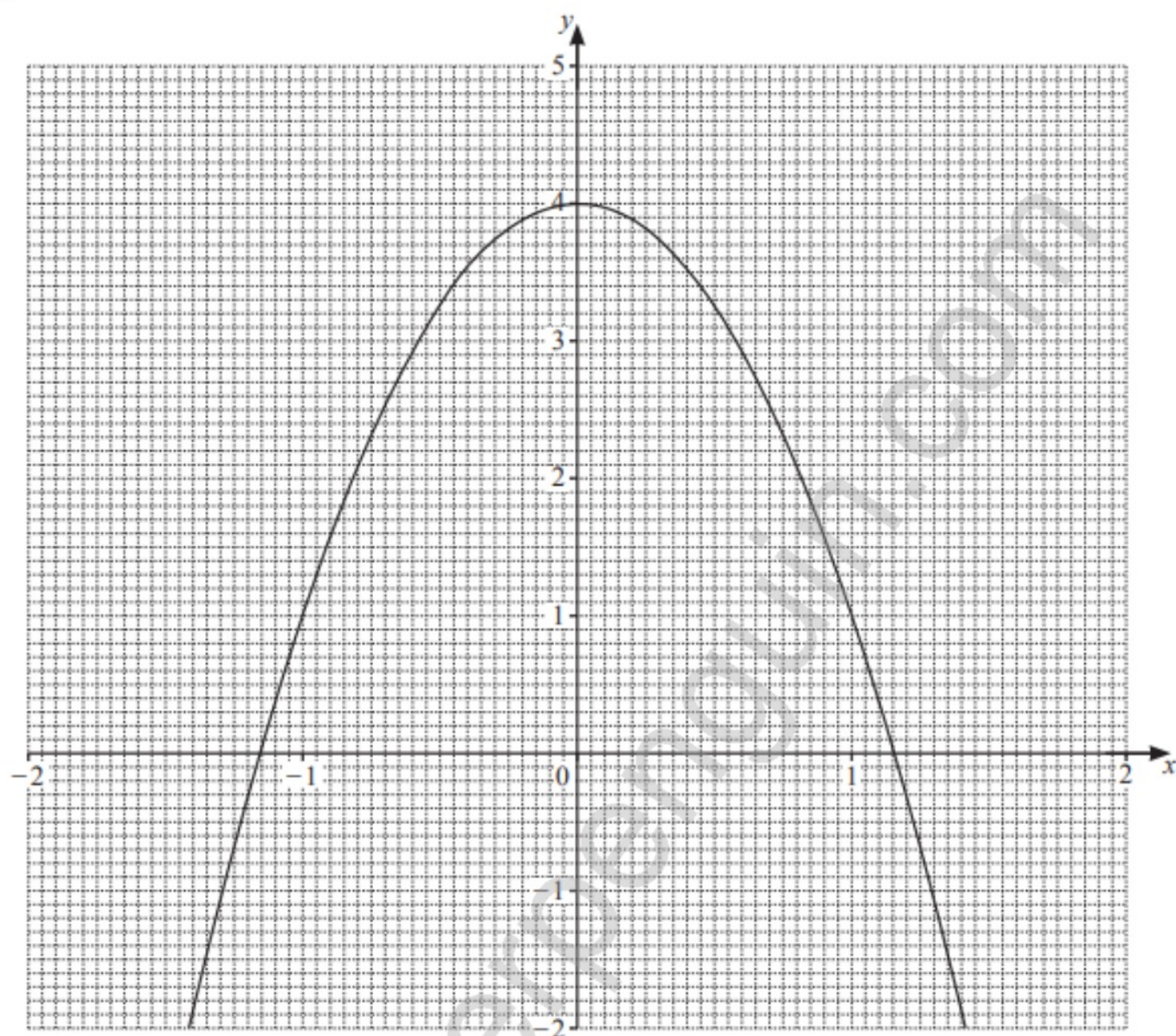


[2]

(b) On the axes, sketch the graph of $y = -x^2$.



[2]



- (a) The grid shows the graph of $y = a + bx^2$.

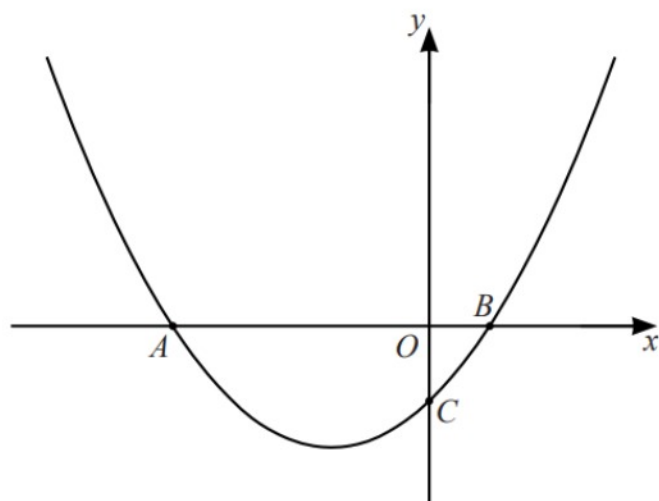
The graph passes through the points with coordinates (0, 4) and (1, 1).

- (i) Find the value of a and the value of b .

$a =$

$b =$ [2]

10 (a)



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The diagram shows a sketch of the curve $y = x^2 + 3x - 4$.

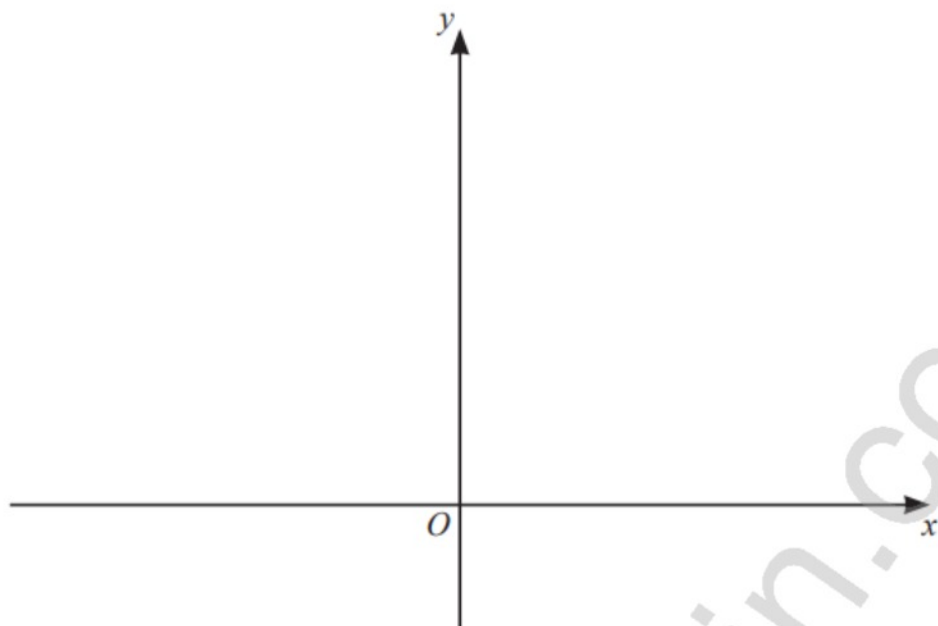
(i) Find the coordinates of the points A , B and C .

A (.....,)

B (.....,)

C (.....,) [4]

(c) (i)



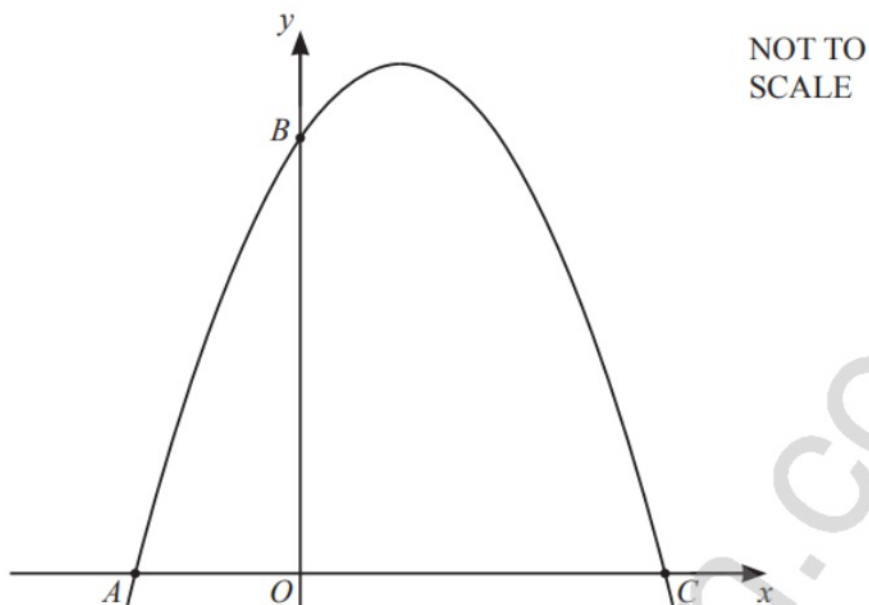
On the diagram,

(a) sketch the graph of $y = (x - 1)^2$,

[2]

(b) sketch the graph of $y = \frac{1}{2}x + 1$.

[2]



The diagram shows a sketch of $y = 18 + 5x - 2x^2$.

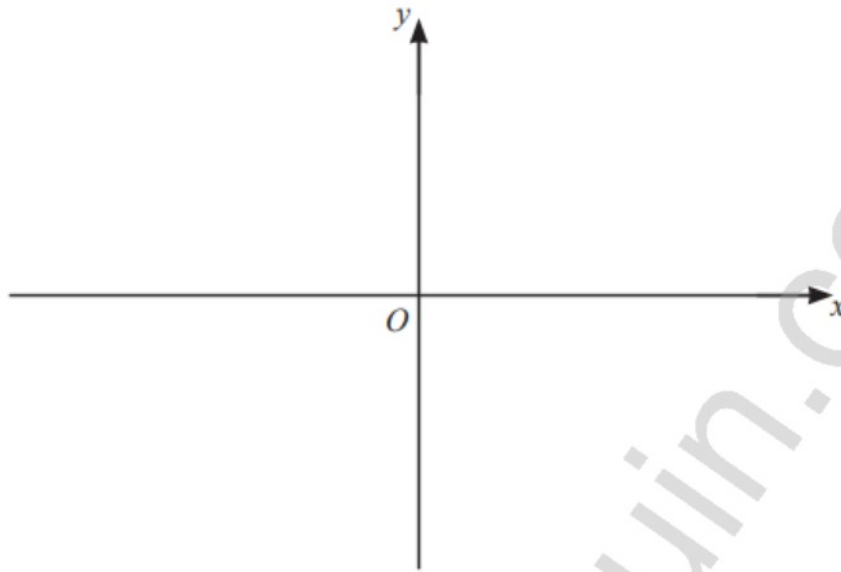
(a) Find the coordinates of the points A , B and C .

A (..... ,)

B (..... ,)

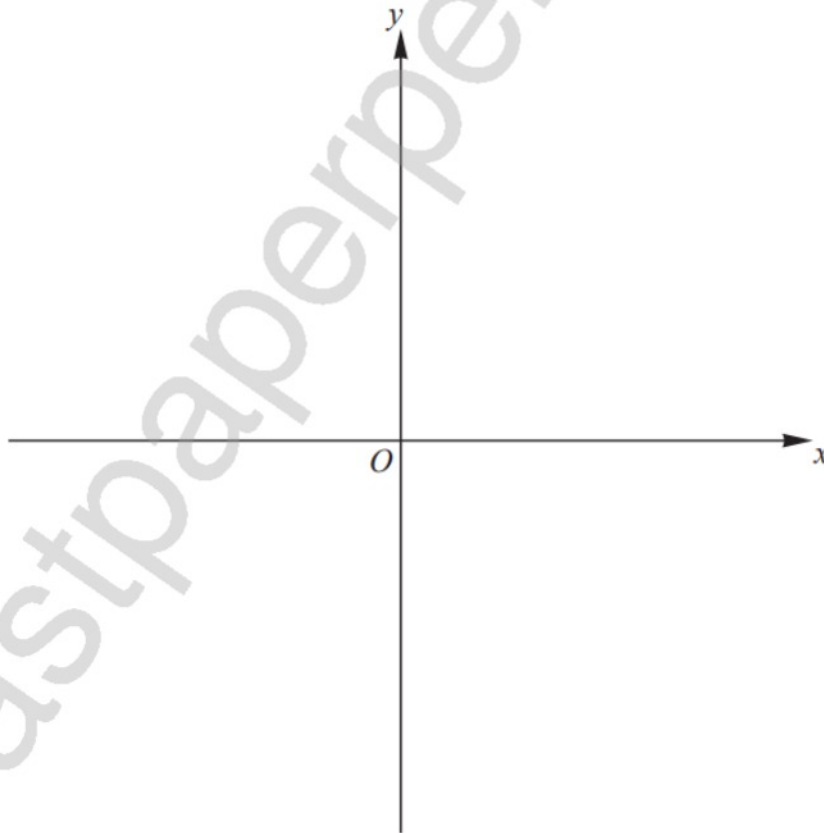
C (..... ,) [4]

(b) Sketch the curve $y = x^3 - 4x$.

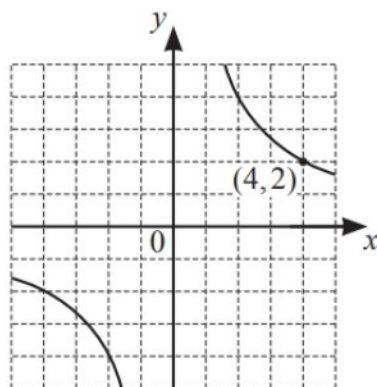


[3]

8 On the diagram, sketch the graph of $y = \frac{1}{x}$.



[2]



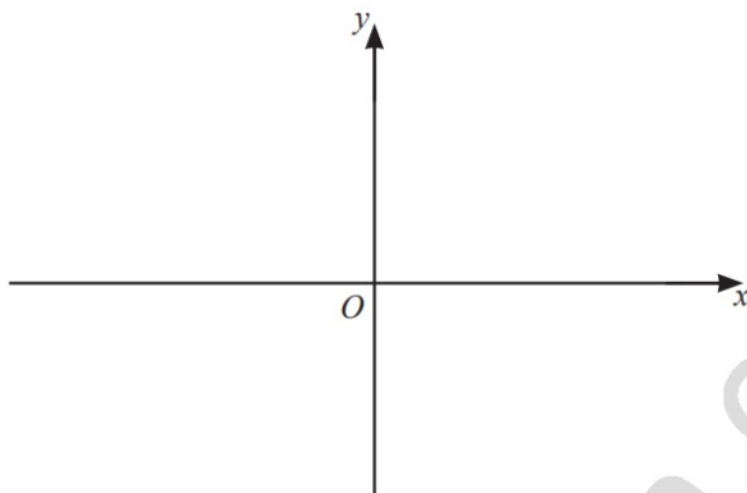
In the diagram, the graph passes through the point (4, 2).

Write down the equation of the graph.

..... [2]

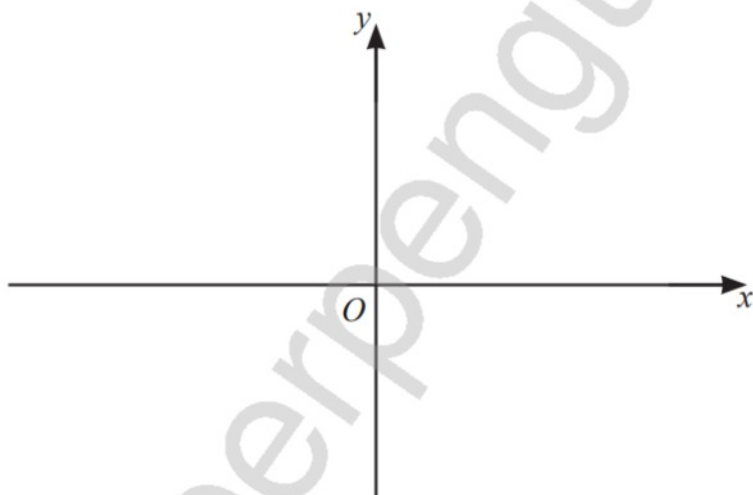
21 On the axes, sketch the graph of each of these functions.

(a) $y = \frac{1}{x}$



[2]

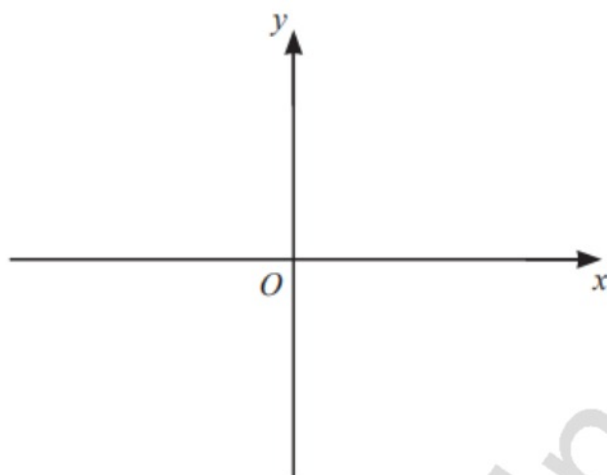
(b) $y = 4^x$



[2]

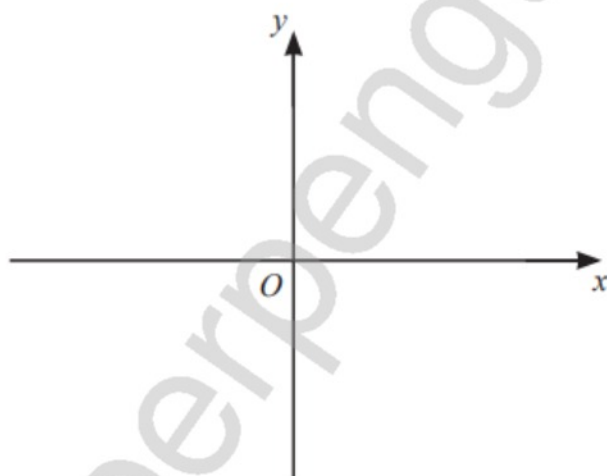
- 9 (a) Sketch the following graphs.
On each sketch, indicate any intercepts with the axes.

(i) $3x - 4y = 12$



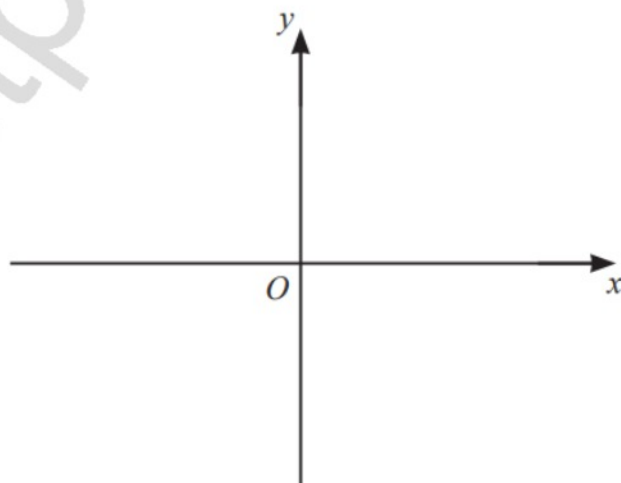
[2]

(ii) $y = x^2 - 3x - 4$



[4]

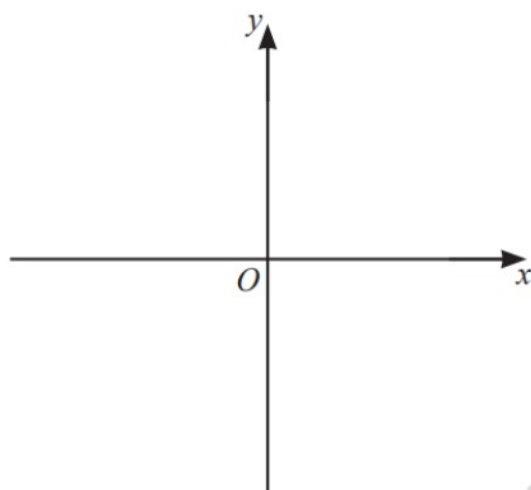
(iii) $y = 6^x$



[2]

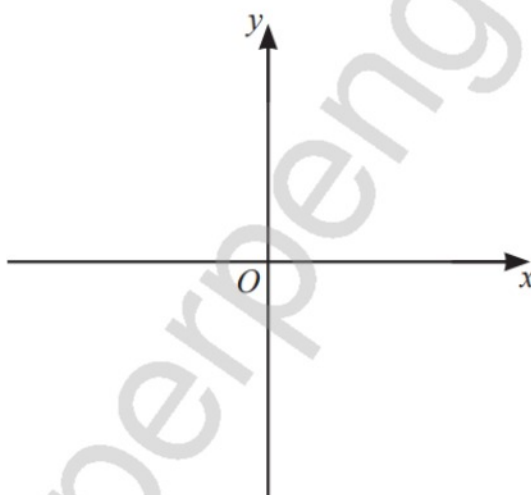
24 On the axes, sketch the graph of each of these functions.

(a) $y = \frac{2}{x}$



[2]

(b) $y = 2^{-x}$



[2]