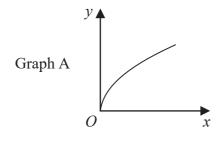
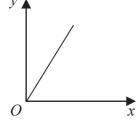
<u>Summer 2018 Paper 2 Q12</u>

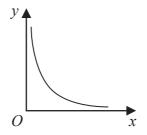
1



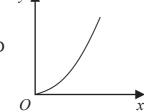
Graph B



Graph C



Graph D



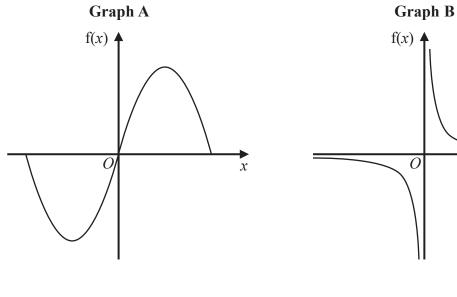
The graphs of y against x represent four different types of proportionality.

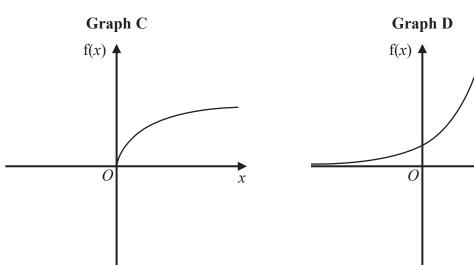
Match each type of proportionality in the table to the correct graph.

Type of proportionality	Graph letter
$y \propto x$	
$y \propto x^2$	
$y \propto \sqrt{x}$	
$y \propto \frac{1}{x}$	

(Total for Question 1 is 2 marks)

2 Here are four graphs.





The graphs represent four different types of function f.

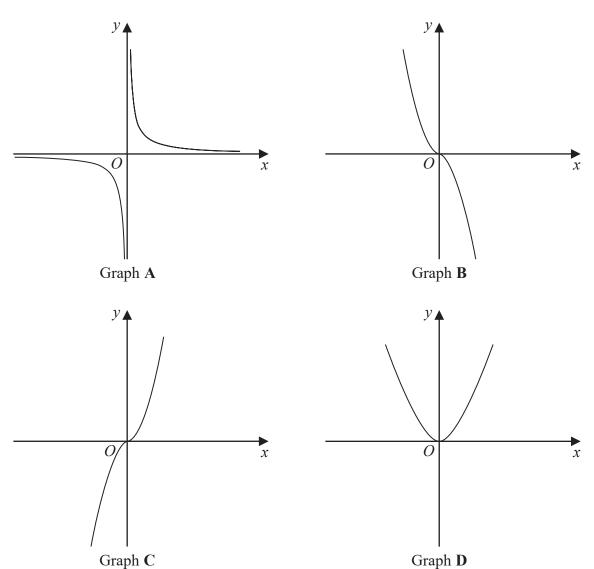
Match each description of the function in the table to the letter of its graph.

Description of function	Graph
f(x) is inversely proportional to x	
f(x) is a trigonometrical function	
f(x) is an exponential function	
$f(x)$ is directly proportional to \sqrt{x}	

(Total for Question 2 is 2 marks)

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3 The diagram shows four graphs.



Each of the equations in the table is the equation of one of the graphs.

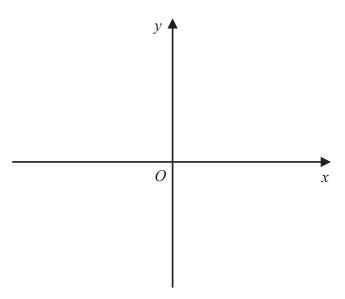
Complete the table.

Equation	Letter of graph
$y = -x^3$	
$y = x^3$	
$y = x^2$	
$y = \frac{1}{x}$	

(Total for Question 3 is 2 marks)

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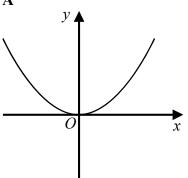
4 On the grid, sketch the curve with equation $y = 2^x$ Give the coordinates of any points of intersection with the axes.



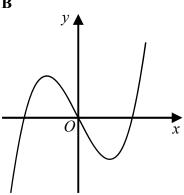
(Total for Question 4 is 2 marks)

5 Here are six graphs.

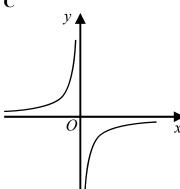
A



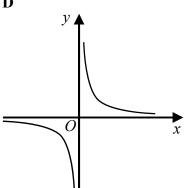
В



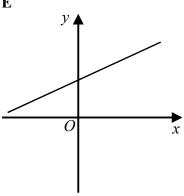
 \mathbf{C}



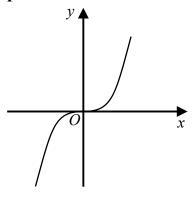
D



E



F



Write down the letter of the graph that could have the equation

(a)
$$y = x^3$$

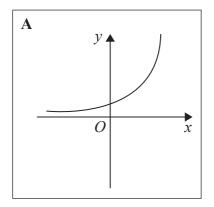
(1)

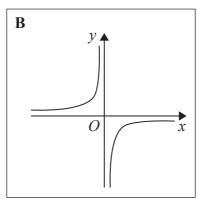
(b)
$$y = \frac{1}{x}$$

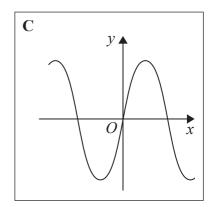
(1)

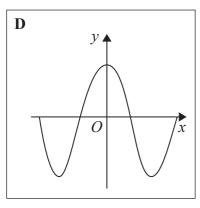
(Total for Question 5 is 2 marks)

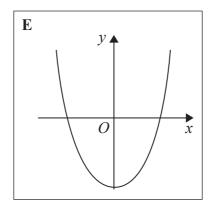
6 Here are some graphs.

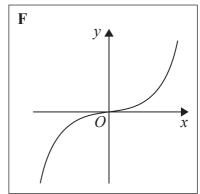


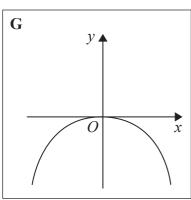


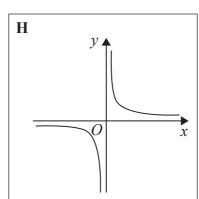


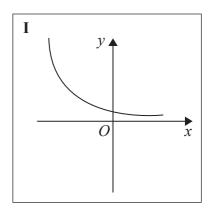












In the table below, match each equation with the letter of its graph.

Equation	Graph
$y = \sin x$	
$y = x^3 + 4x$	
$y = 2^x$	
$y = \frac{4}{x}$	

(Total for Question 6 is 3 marks)