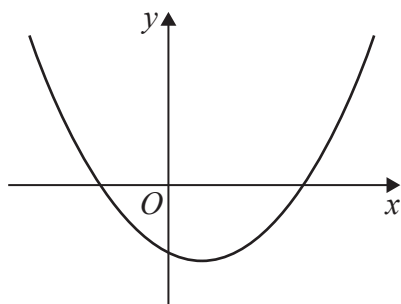
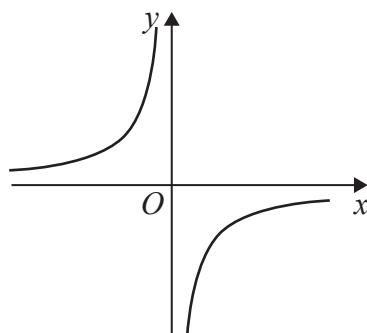


12 Here are six graphs.

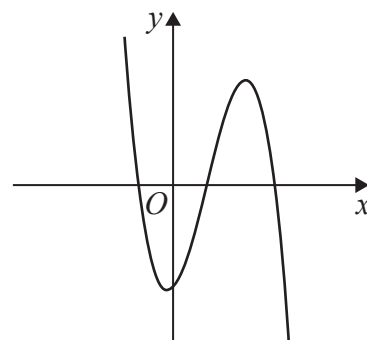
Graph A



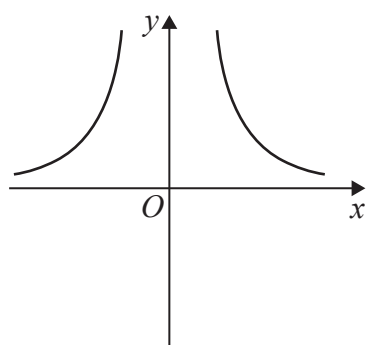
Graph B



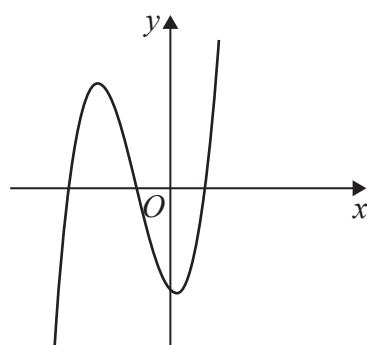
Graph C



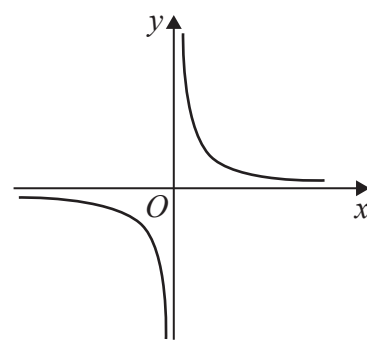
Graph D



Graph E



Graph F



Write down the letter of the graph of

(a) $y = \frac{10}{x^2}$

(1)

(b) $y = x - 3 + 3x^2 - x^3$

(1)

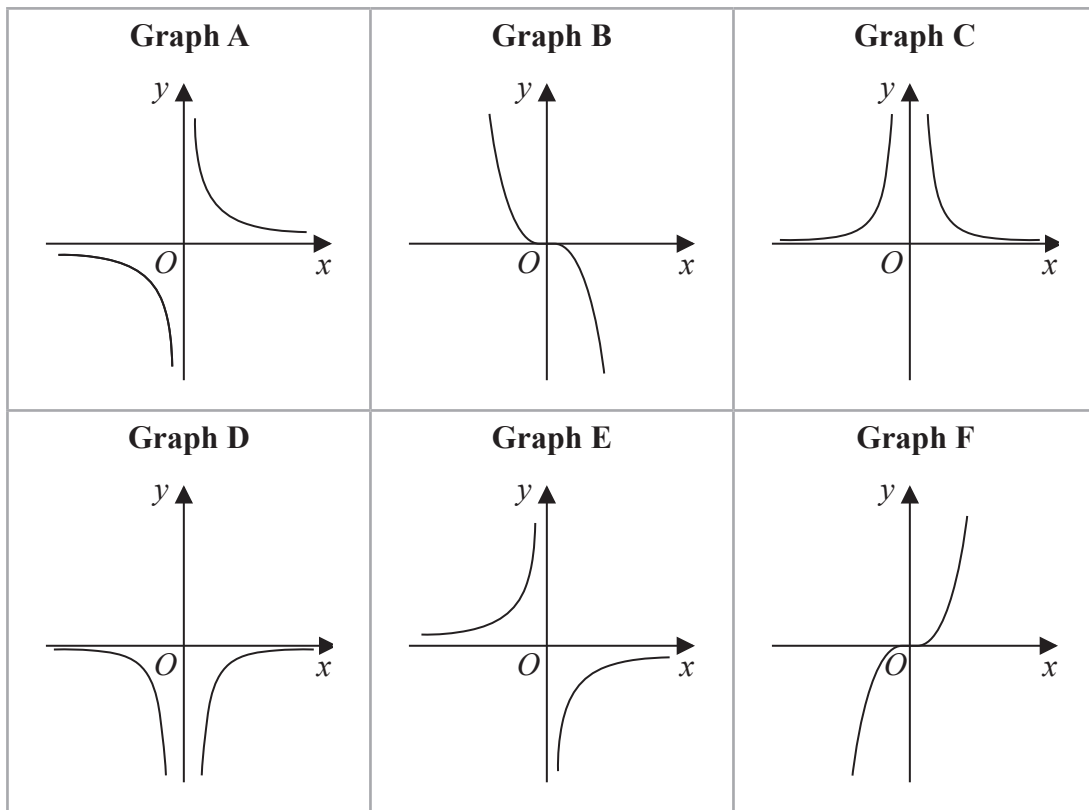
(c) $y = -\frac{3}{x}$

(1)

(Total for Question 12 is 3 marks)



15 Here are six graphs.



Complete the table below with the letter of the graph that could represent each given equation.

Write your answers on the dotted lines.

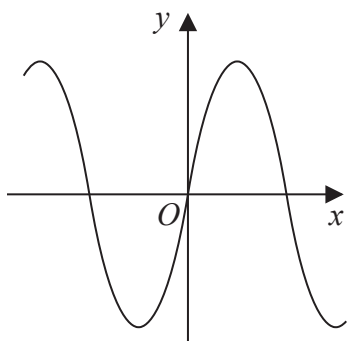
Equation	Graph
$y = \frac{2}{x^2}$
$y = -\frac{1}{2}x^3$
$y = -\frac{5}{x}$

(Total for Question 15 is 3 marks)

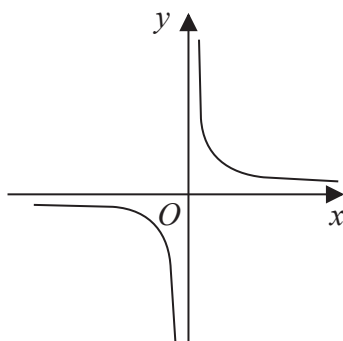


16 Here are nine graphs.

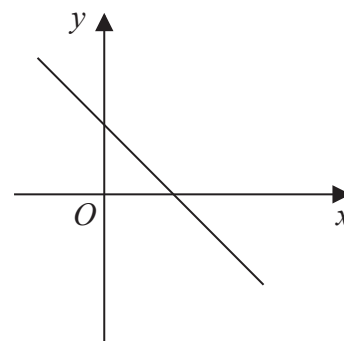
Graph A



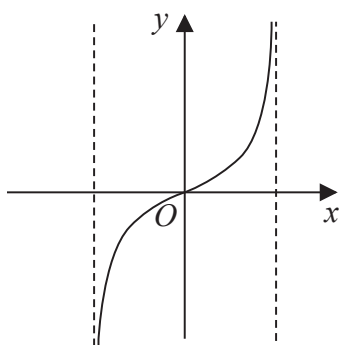
Graph B



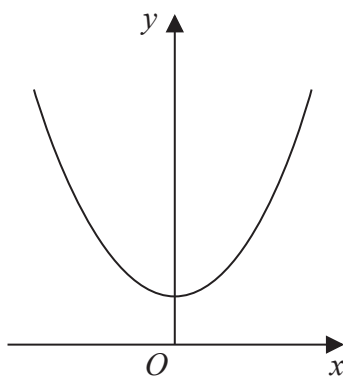
Graph C



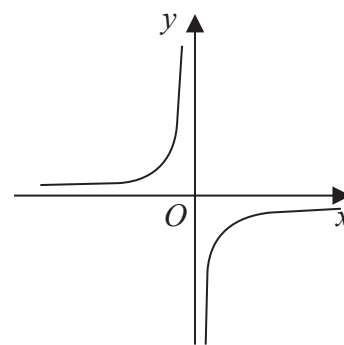
Graph D



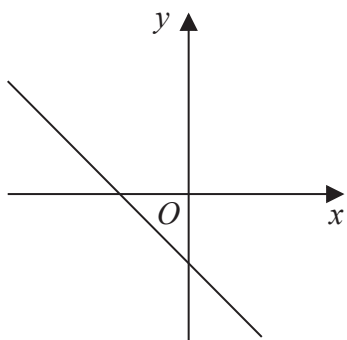
Graph E



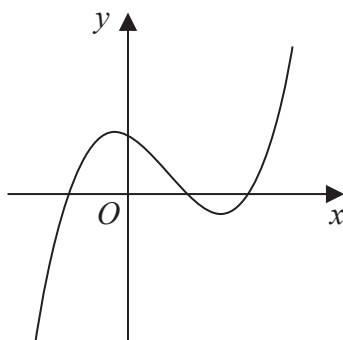
Graph F



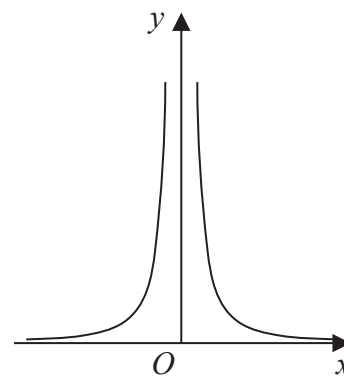
Graph G



Graph H



Graph I



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DO NOT WRITE IN THIS AREA



Complete the table below with the letter of the graph that could represent each given equation.
Write each answer on the dotted line.

Equation	Graph
$y = -2x + 3$
$y = -\frac{1}{x}$
$y = \tan x^\circ$
$y = (x + 1)(x - 1)(x - 2)$

(Total for Question 16 is 3 marks)

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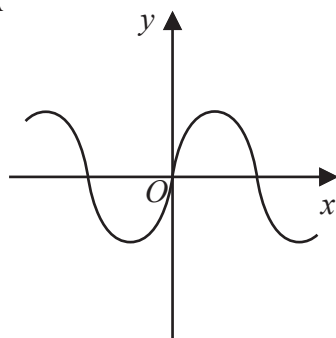
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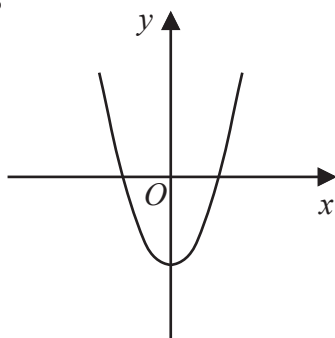


16 Here are six graphs.

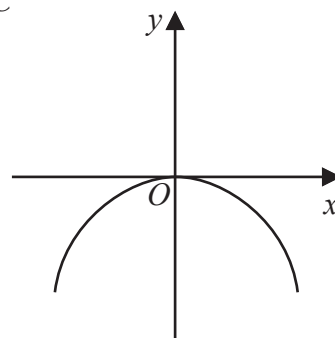
A



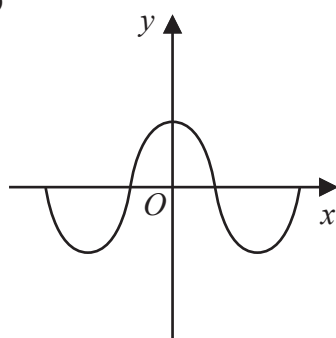
B



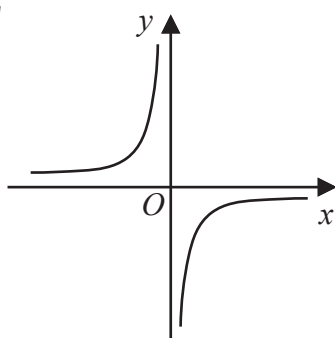
C



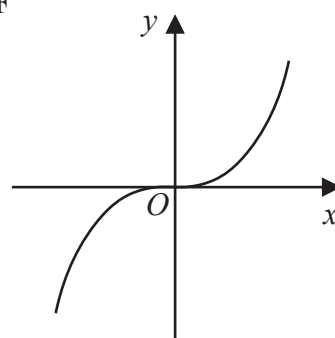
D



E



F



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

(i) $y = -\frac{1}{x}$

(1)

(ii) $y = \sin x^\circ$

(1)

(Total for Question 16 is 2 marks)

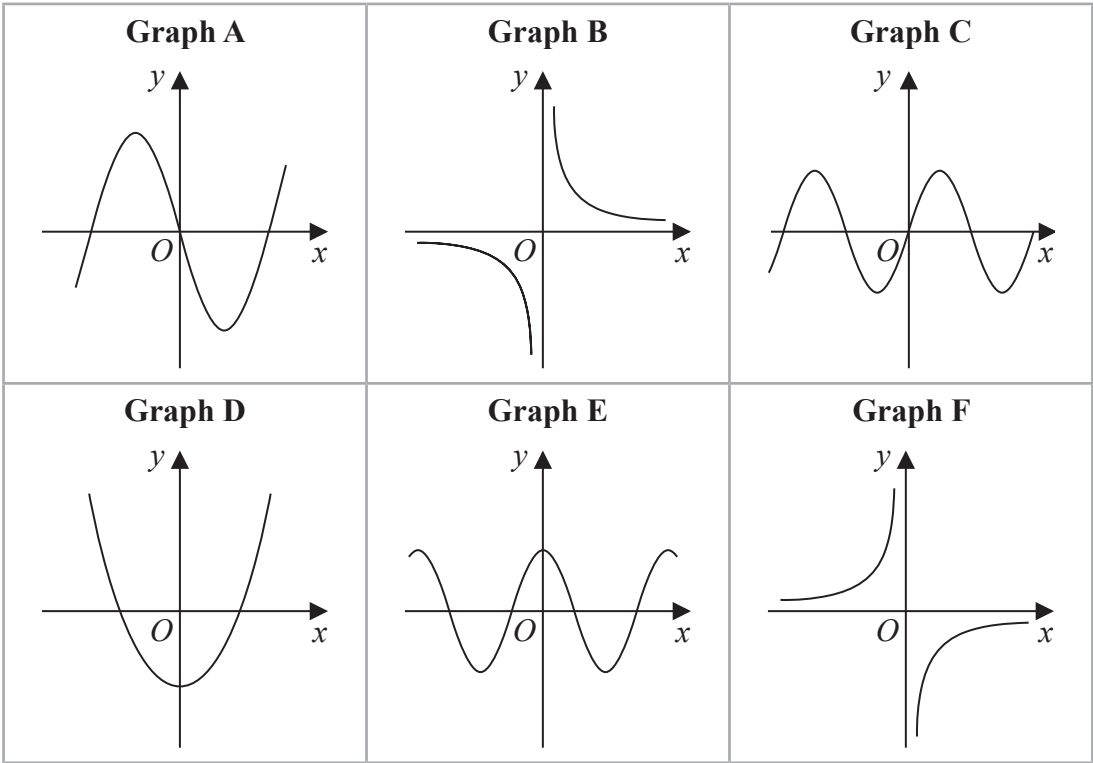
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DO NOT WRITE IN THIS AREA



18 Here are 6 graphs.



Complete the table below with the letter of the graph that could represent each given equation.

Write your answers on the dotted lines.

Equation	Graph
$y = \sin x$
$y = -\frac{3}{x}$
$y = 4x^3 - 5x$

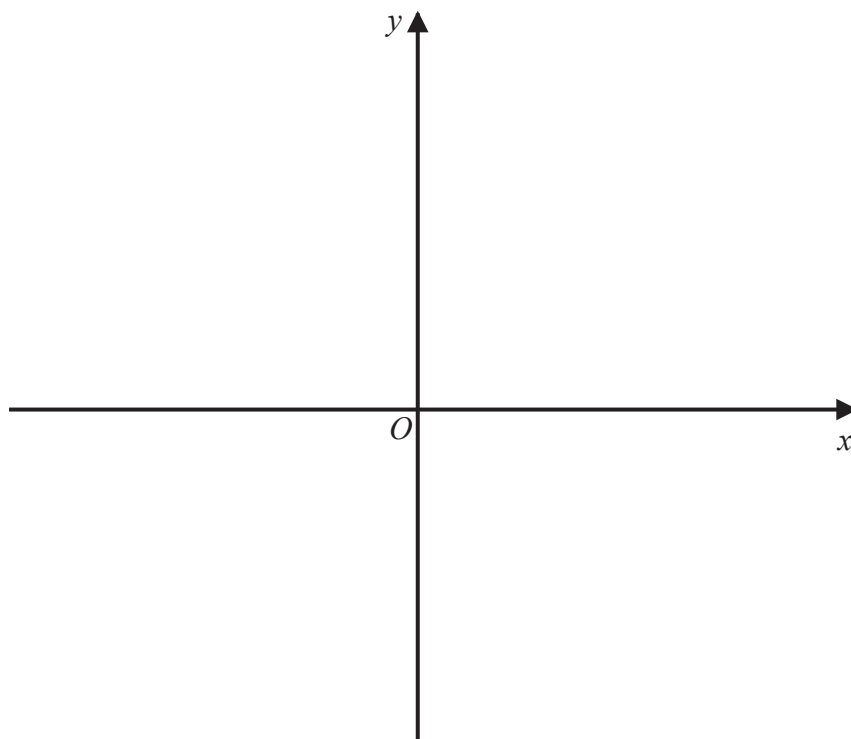
(Total for Question 18 is 3 marks)



- 20 The curve **C** has equation $y = 4(x - 1)^2 - a$ where $a > 4$

Using the axes below, sketch the curve **C**.
On your sketch show clearly, in terms of a ,

- (i) the coordinates of any points of intersection of **C** with the coordinate axes,
- (ii) the coordinates of the turning point.



(Total for Question 20 is 4 marks)

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DO NOT WRITE IN THIS AREA

