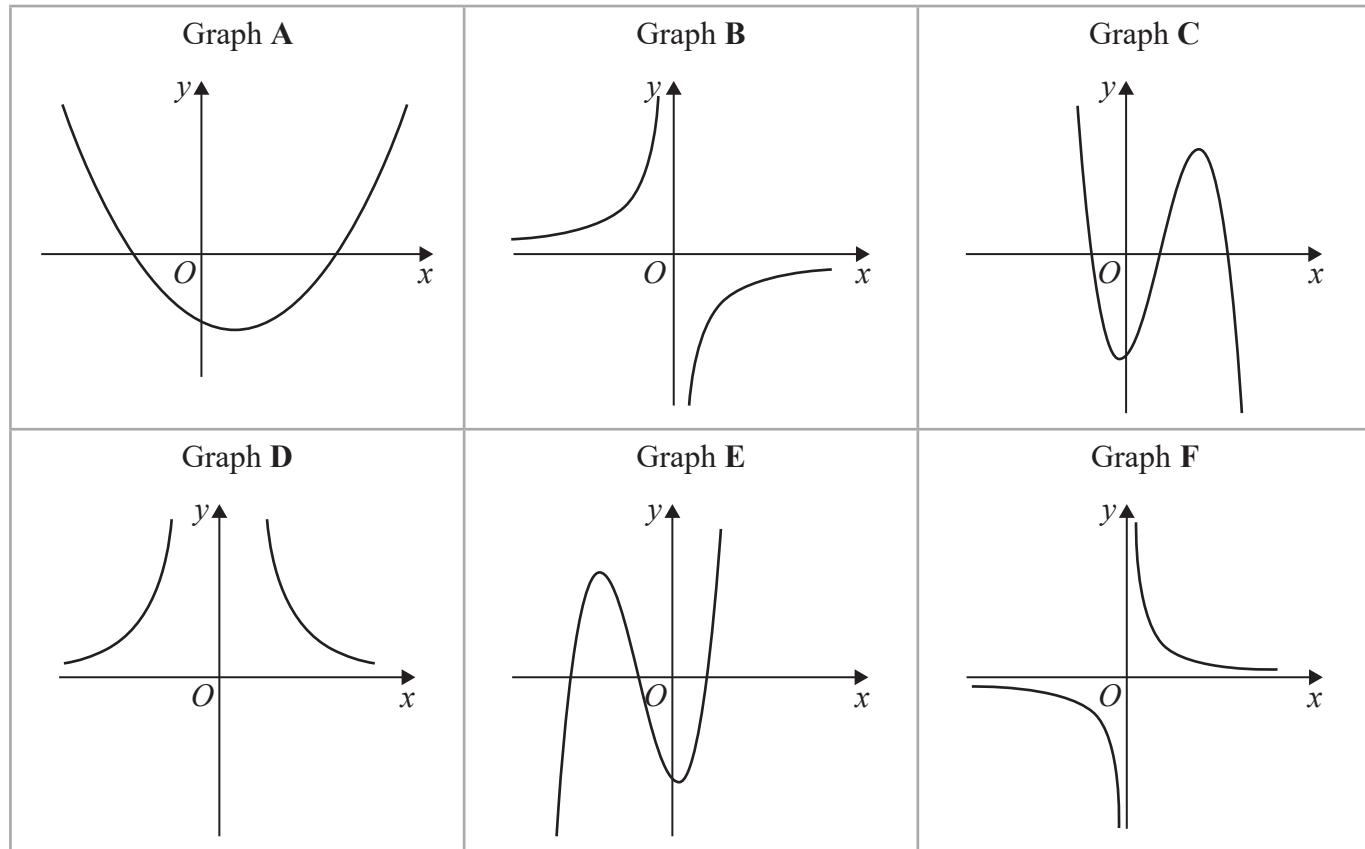


12 Here are six graphs.



Write down the letter of the graph of

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

(1)

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

(1)

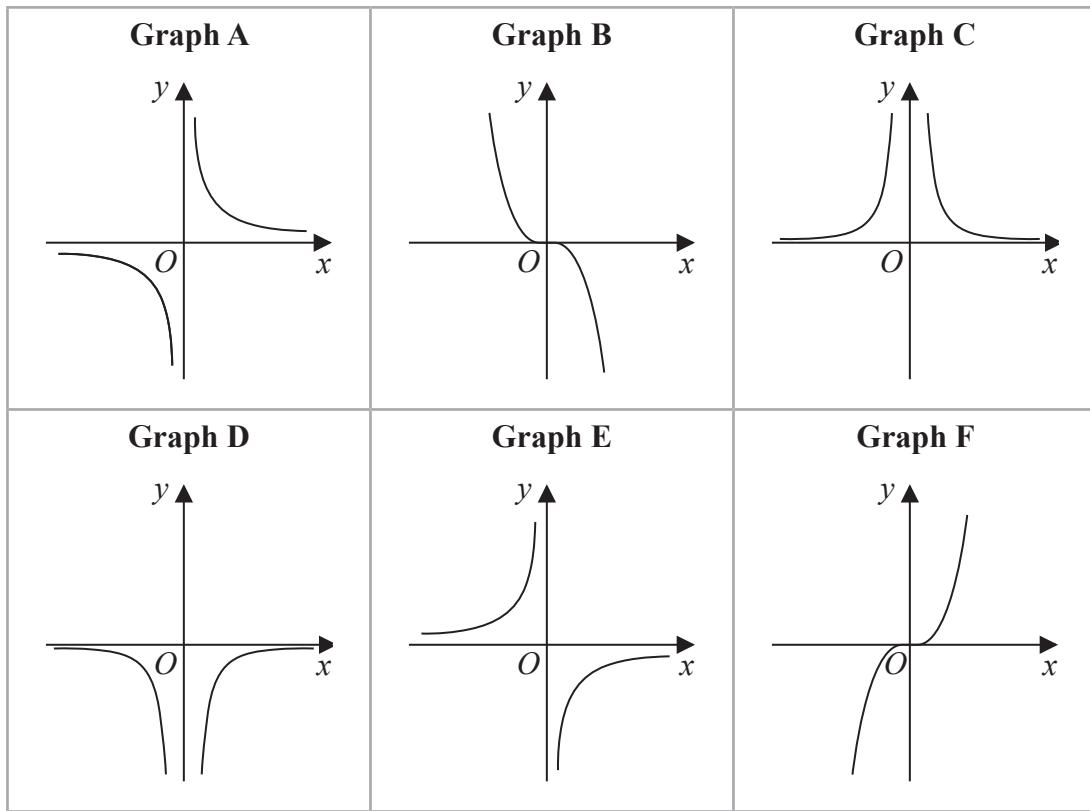
(c) $y = -\frac{3}{x}$

(1)

(Total for Question 12 is 3 marks)

P 7 2 8 2 9 A 0 1 3 2 8

15 Here are six graphs.



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

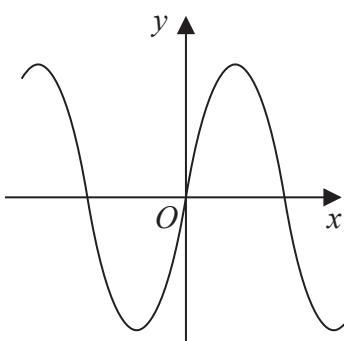
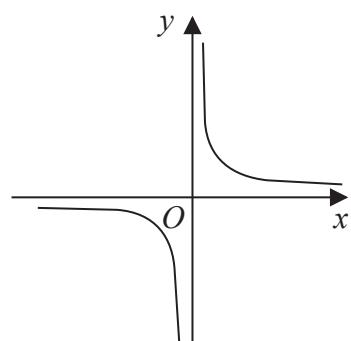
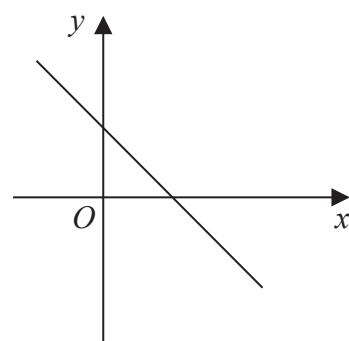
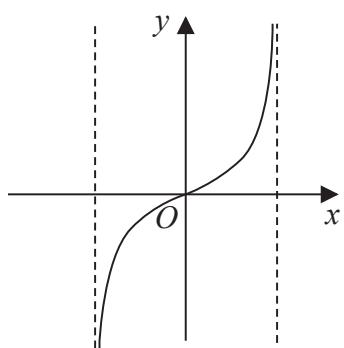
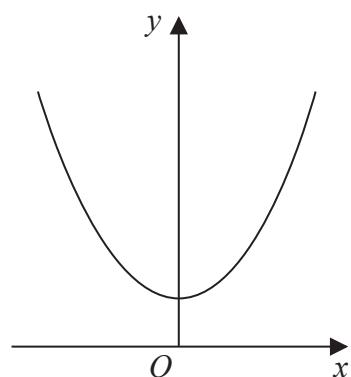
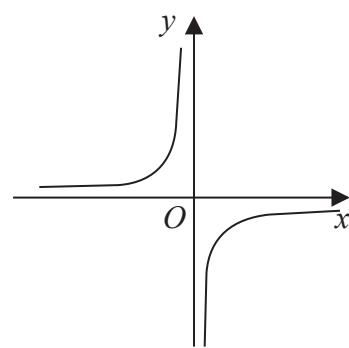
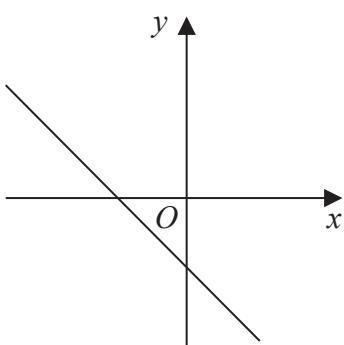
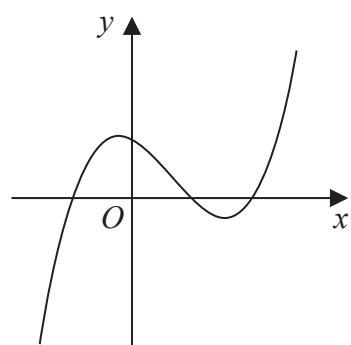
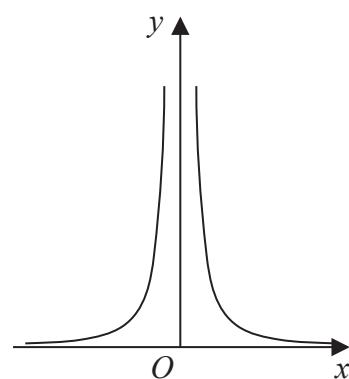
Write your answers on the dotted lines.

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**

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

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.

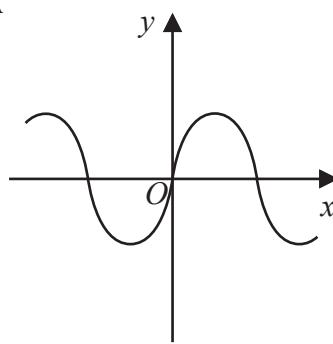
Equation	Graph
$y = -2x + 3$
$y = -\frac{1}{x}$
$y = \tan x^\circ$
$y = (x + 1)(x - 1)(x - 2)$

(Total for Question 16 is 3 marks)

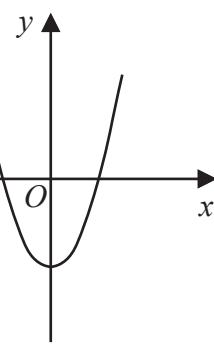


16 Here are six graphs.

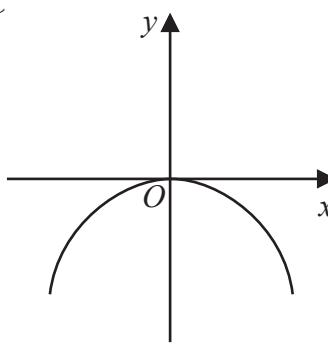
A



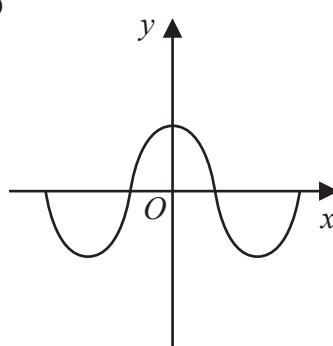
B



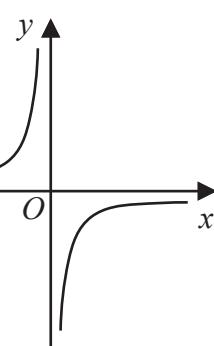
C



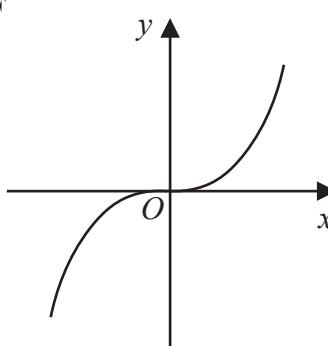
D



E



F



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

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

(1)

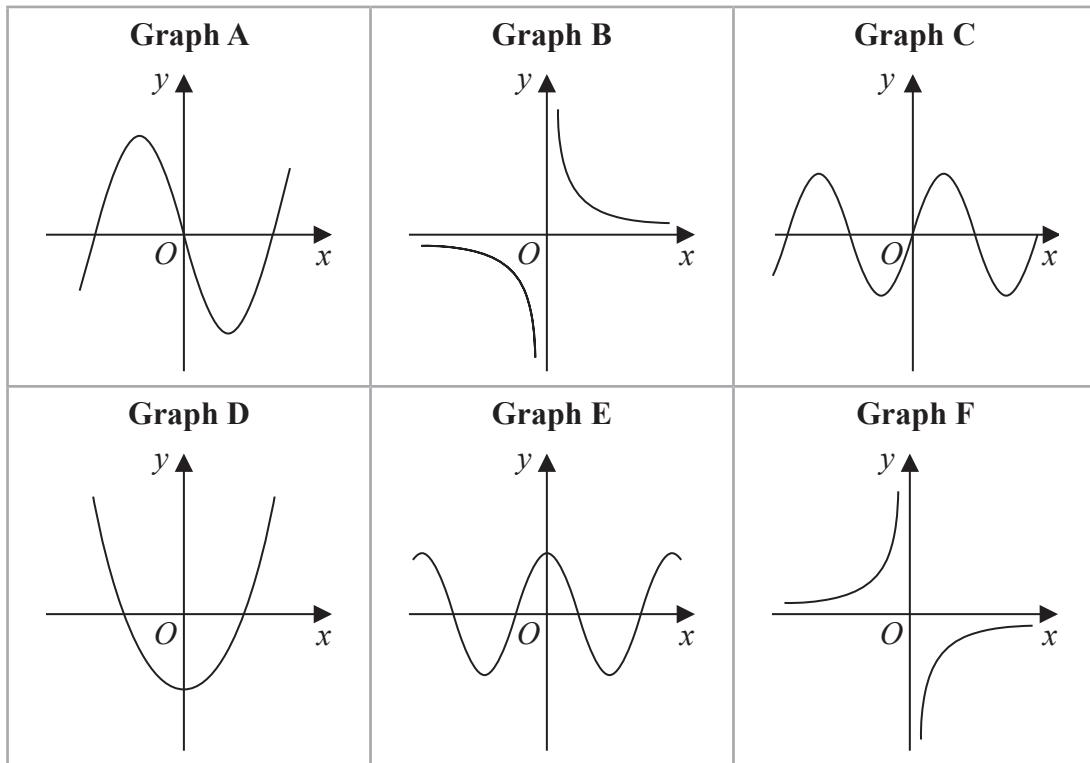
(ii) $y = \sin x^\circ$

(1)

(Total for Question 16 is 2 marks)



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)

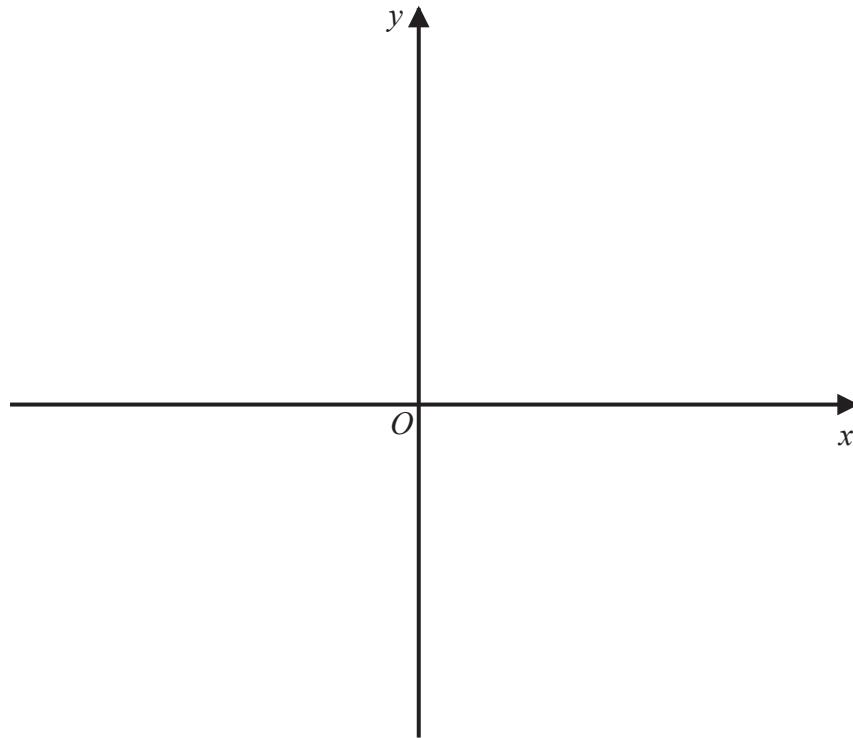


20 The curve **C** has equation $y = 4(x - 1)^2 - a$ where $a > 4$

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)

