

3.

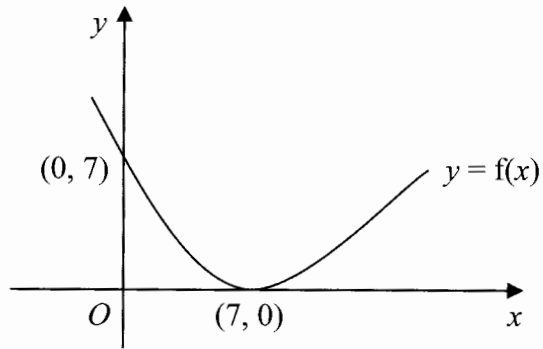


Figure 1

Figure 1 shows a sketch of the curve with equation $y = f(x)$. The curve passes through the point $(0, 7)$ and has a minimum point at $(7, 0)$.

On separate diagrams, sketch the curve with equation

(a) $y = f(x) + 3$, (3)

(b) $y = f(2x)$. (2)

On each diagram, show clearly the coordinates of the minimum point and the coordinates of the point at which the curve crosses the y -axis.



Leave
blank

Question 3 continued

Q3

(Total 5 marks)

5

Turn over

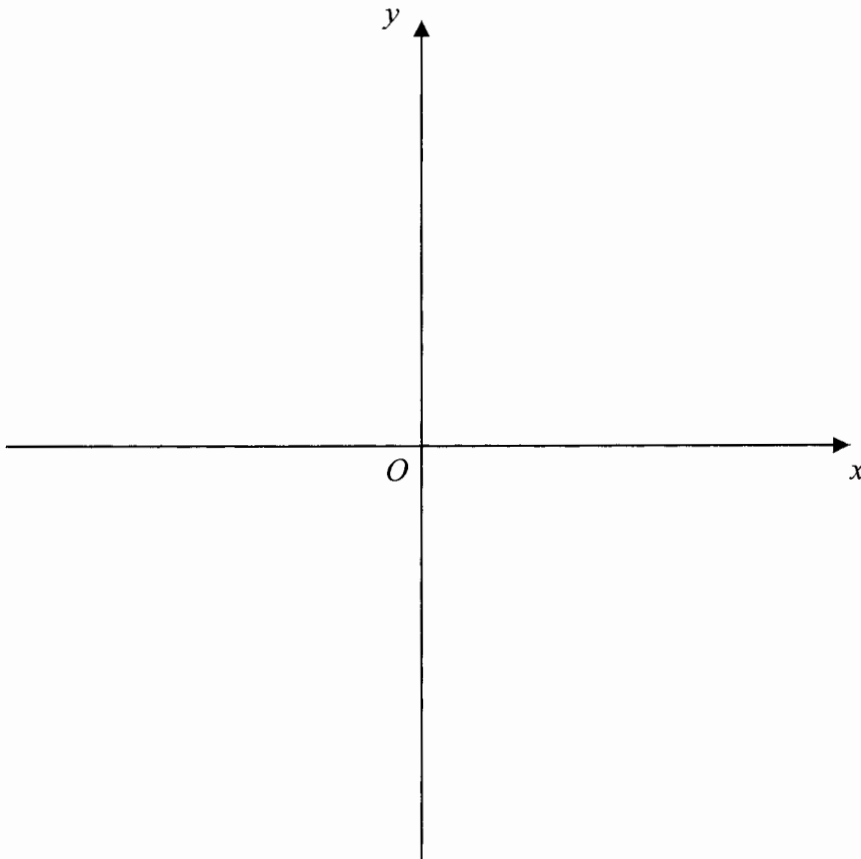


H 2 9 9 9 2 A 0 5 2 8

6. The curve C has equation $y = \frac{3}{x}$ and the line l has equation $y = 2x + 5$.

(a) On the axes below, sketch the graphs of C and l , indicating clearly the coordinates of any intersections with the axes. (3)

(b) Find the coordinates of the points of intersection of C and l . (6)



Leave blank

Question 10 continued

Lined area for writing the answer to Question 10.

Q10

(Total 13 marks)

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Question 11 continued

Lined writing area for the answer to Question 11.

Q11

(Total 8 marks)

TOTAL FOR PAPER: 75 MARKS

END

