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6.

Figure 1

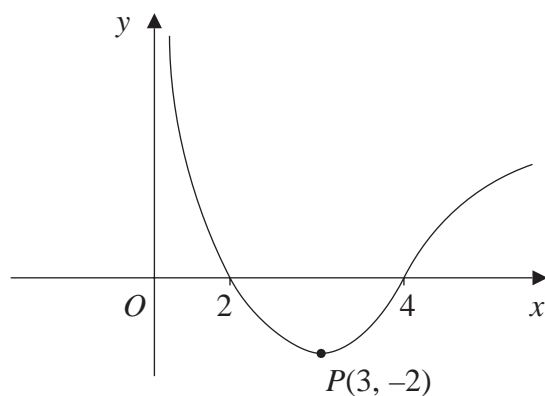


Figure 1 shows a sketch of the curve with equation $y = f(x)$. The curve crosses the x -axis at the points $(2, 0)$ and $(4, 0)$. The minimum point on the curve is $P(3, -2)$.

In separate diagrams sketch the curve with equation

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

(b) $y = f(2x)$. (3)

On each diagram, give the coordinates of the points at which the curve crosses the x -axis, and the coordinates of the image of P under the given transformation.

Question 6 continued

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(Total 6 marks)

Q6

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