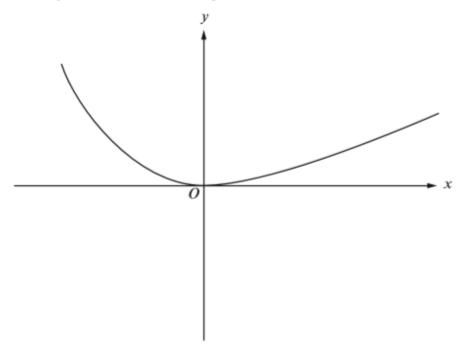
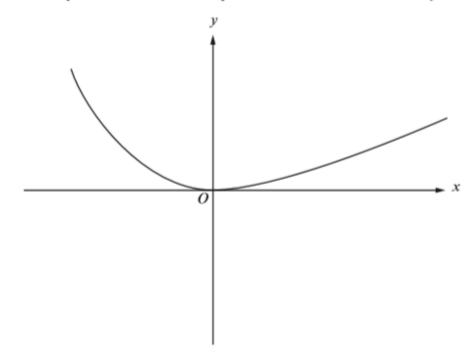


MATCHSDIY

1. (a) The diagram shows a sketch of y = f(x). On the same diagram, sketch the curve y = f(x - 2). Mark clearly the coordinates of the point where this curve touches an axis.

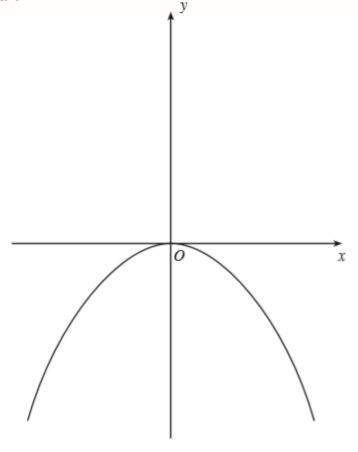


(b) The diagram shows another sketch of y = f(x). On the same diagram, sketch the curve y = -f(x) + 3. Mark clearly the coordinates of the point where this curve meets the y-axis.

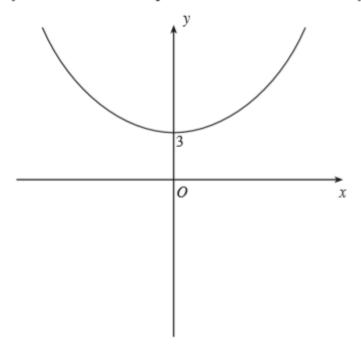


[3]

- (i) $y = x^2$.
- (ii) $y = 4x^2$

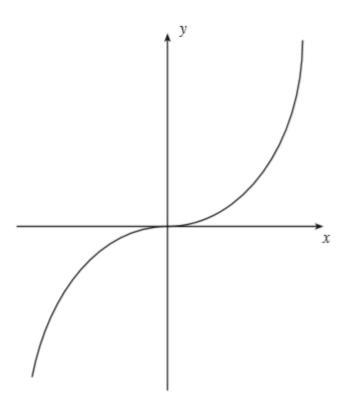


(b) The diagram shows a sketch of y = f(x).
 On the same diagram, sketch the curve y = f(x) - 6.
 Mark clearly the coordinates of the point where the curve crosses the y-axis.

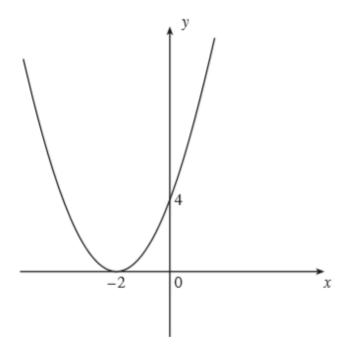


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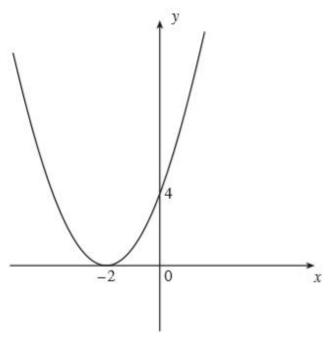
3. (a) The diagram shows the sketch of $y = x^3$. On the same diagram, sketch the curve $y = -x^3$. [1]



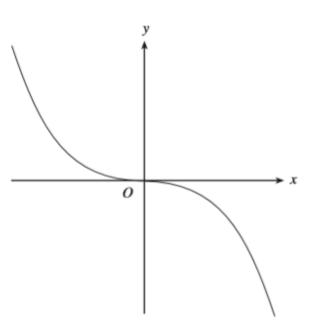
(b) The diagram shows a sketch of y = f(x). On the same diagram, sketch the curve y = f(x - 2). Mark clearly the coordinates of the points where the curve crosses or touches the x-axis or y-axis.
[2]



(c) The diagram shows a sketch of y = f(x). On the same diagram sketch the curve y = f(x) + 2. Mark clearly the coordinates of the points where the curve crosses or touches the x-axis or y-axis.
[2]



4. (a) The diagram shows a sketch of $y = -x^3$. On the same diagram, sketch the curve $y = -2x^3$.

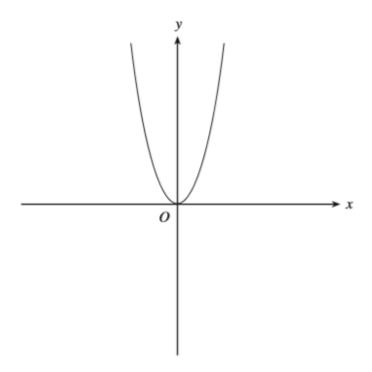


[1]

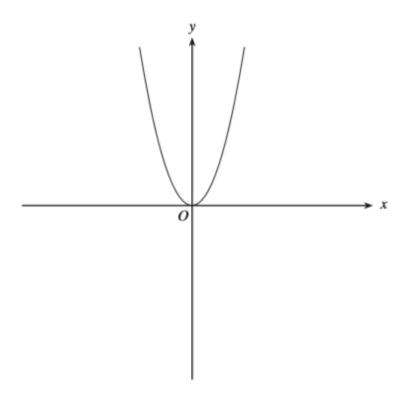
)

(b) The diagram shows a sketch of y = f(x). On the same diagram, sketch the curve y = f(x + 5). Indicate the coordinates of one point on the curve.

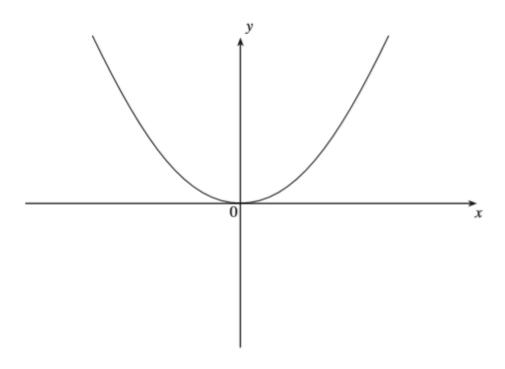




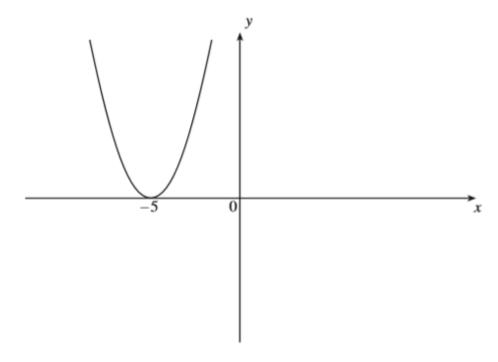
(c) The diagram shows a sketch of y = f(x). On the same diagram, sketch the curve y = f(x) - 3. Indicate the coordinates of one point on the curve.



(a) The diagram shows a sketch of $y = x^2$. On the same diagram sketch the curve $y = x^2 - 4$. Mark clearly the coordinates of the point where the curve meets the y-axis.



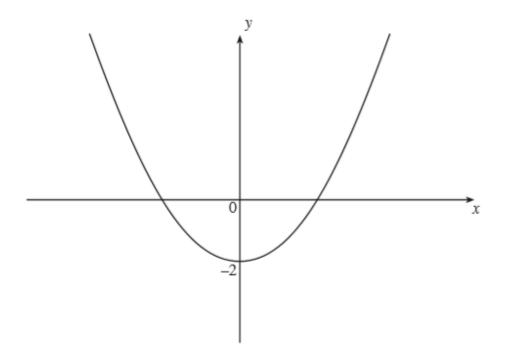
(b) The diagram shows the sketch of y = f(x). On the same diagram sketch the curve y = f(x - 5). Mark clearly the point where the curve meets the x-axis.



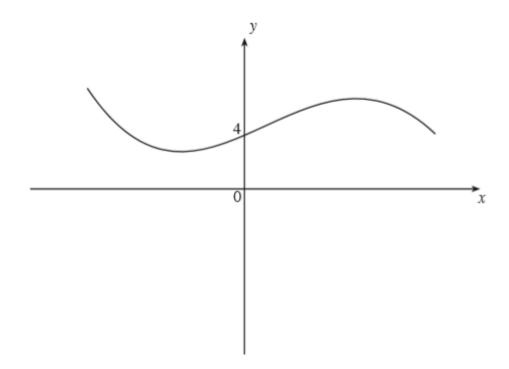
[2]

MATCHSDIV 9

(a) The diagram shows a sketch of y = f(x).
 On the same diagram, sketch the curve y = f(x) + 5.
 Mark clearly the value of y at the point where this curve crosses the y-axis.

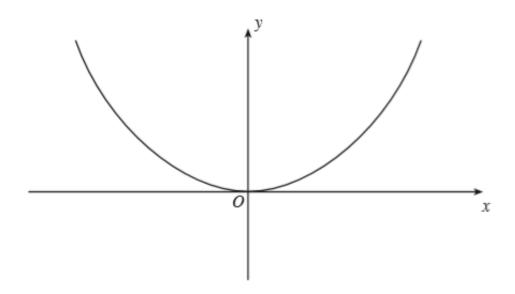


(b) The diagram shows a sketch of y = g(x).
 On the same diagram, sketch the curve y = -g(x).
 Mark clearly the value of y at the point where this curve crosses the y-axis.

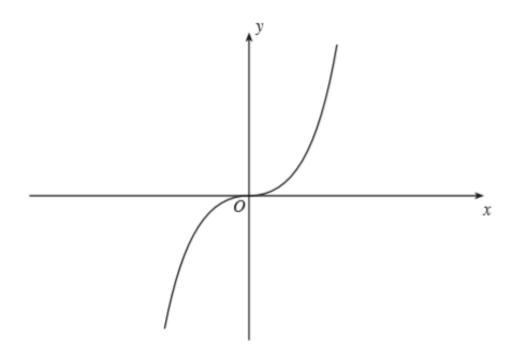


[2]

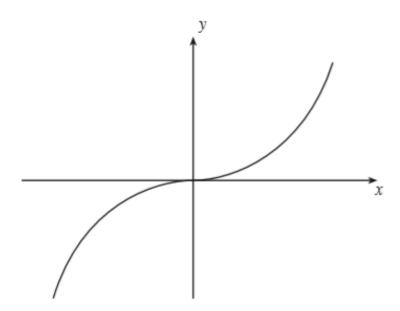
(a) The diagram shows a sketch of y = x².
 On the same diagram, sketch the curve y = x² + 4.
 Mark clearly the coordinates of the point where the curve meets the y-axis.



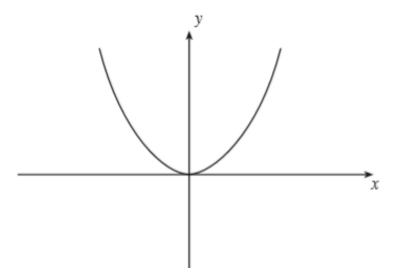
(b) The diagram shows the sketch of y = f(x).
 On the same diagram sketch the curve y = f(x - 3).
 Mark clearly the co-ordinates of the point where the curve meets the x-axis.



[2]

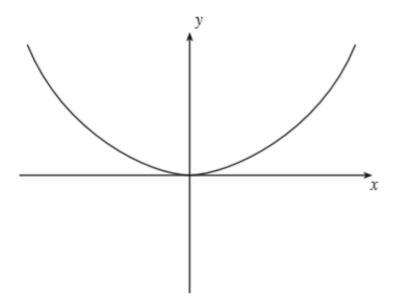


(b) The diagram shows a sketch of y = g(x). On the same diagram, sketch the curve y = g(x + 6). Mark clearly the coordinates of the point where the curve meets the x-axis.



- (c) The diagram shows the sketch of y = h(x). On the same diagram sketch the curves
 - (i) y = -h(x), and
 - (ii) y = -h(x) 1, mark clearly the coordinates of the point where the curve crosses the y-axis.

[3]



9. The diagram shows a sketch of $y = -x^3$. On the same diagram, sketch the curve $y = -2x^3$.

[1]

