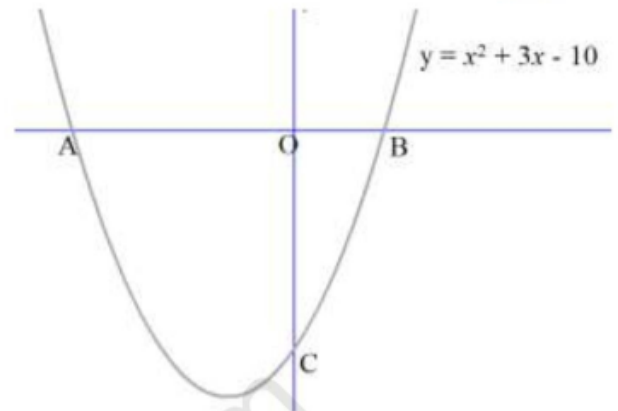
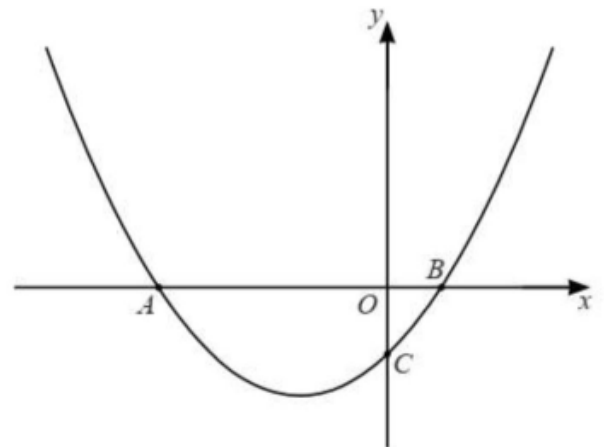




1. In the figure the curve $y = x^2 + 3x - 10$ cuts the x axis at two points A and B, and y axis at point C.
- (a) Find the coordinates of A and B. [3]
- (b) Find the coordinates of C. [1]

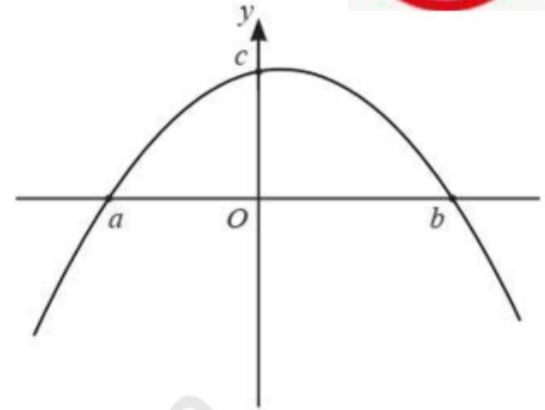


2. The diagram shows a sketch of the curve with equation $y = x^2 + 3x - 4$. Find the coordinates of the points A, B and C. [4]

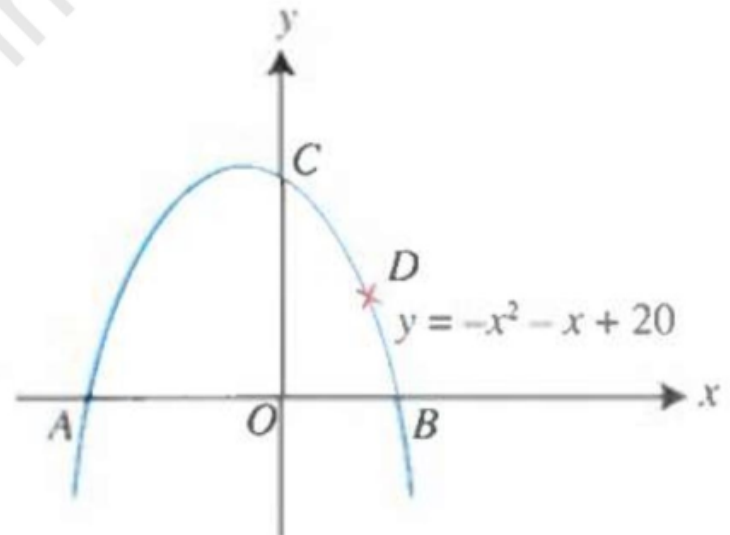




3. (i) Factorise $24 + 5x - x^2$ [2]
(ii) The diagram shows a sketch of $y = 24 + 5x - x^2$
Work out the values of a , b and c . [3]

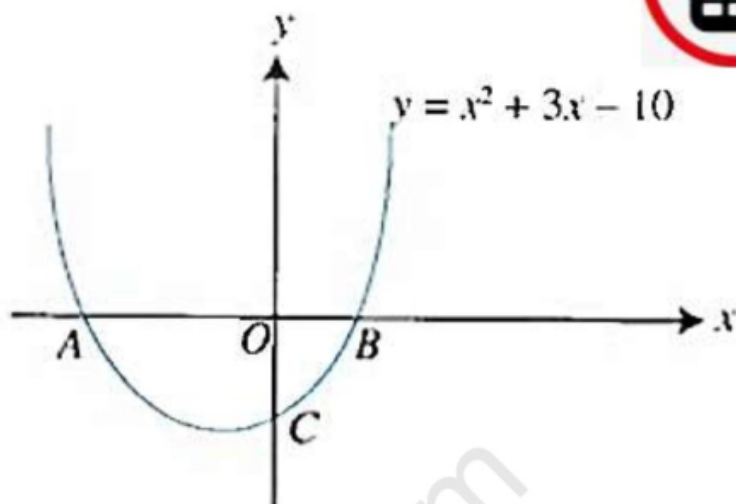


4. The figure shows the curve $y = -x^2 - x + 20$.
(i) The curve cuts the x -axis at two points A and B ,
and the y -axis at the point C .
Find the coordinates of A , B and C .
(ii) The point $D(3, h)$ lies on the curve. Find the
value of h .





5. In the figure, the curve $y = x^2 + 3x - 10$ cuts the x -axis at two points A and B , and the y -axis at the point C . Calculate the coordinates of A , B and C .



Answers

1) (a) $A(-5,0)$ $B(2,0)$ (b) $C(0, -10)$
2) $A(-4, 0)$ $B(1, 0)$ $C(0, -4)$
3) (i) $(8 - x)(3 + x)$ (ii) $a = -3$ $b = 8$ $c = 24$
4) (i) $A(-5,0)$, $B(4,0)$, $C(0,20)$ (ii) 8
5) $A(-5,0)$ $B(2,0)$ $C(0,-10)$