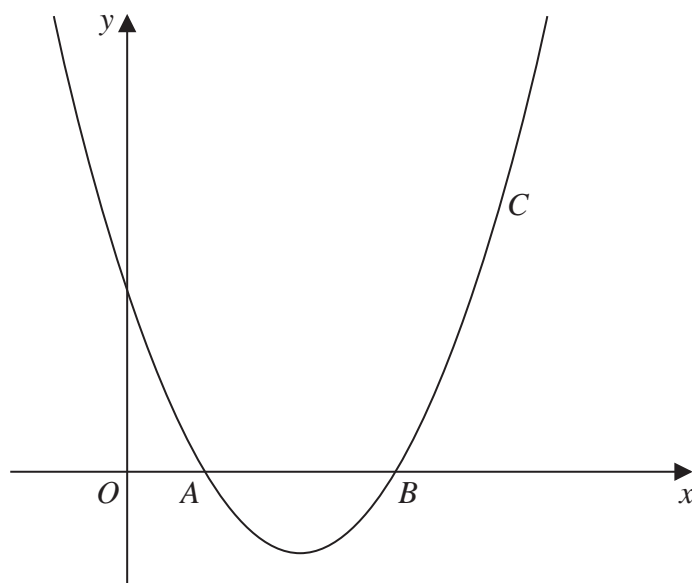


6

Diagram **NOT**  
accurately drawn**Figure 3**

The curve  $C$  with equation  $y = x^2 - 5x + 4$  crosses the  $x$ -axis at the points  $A$  and  $B$ , as shown in Figure 3

- (a) Find the coordinates of  $A$  and the coordinates of  $B$ .

(3)

The tangent to  $C$  at  $A$  meets the tangent to  $C$  at  $B$  at the point  $T$ .

- (b) Find the coordinates of  $T$ .

(6)

The normal to  $C$  at  $A$  meets the normal to  $C$  at  $B$  at the point  $N$ .

- (c) Find the coordinates of  $N$ .

(3)

- (d) Find the area of the quadrilateral  $ATBN$ .

(3)

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**Question 6 continued**

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P 6 2 2 8 4 A 0 1 5 3 2

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**(Total for Question 6 is 15 marks)**

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