

- 9 Figure 2 shows two shapes A and B.
All the lengths are in metres.

Diagram NOT
accurately drawn

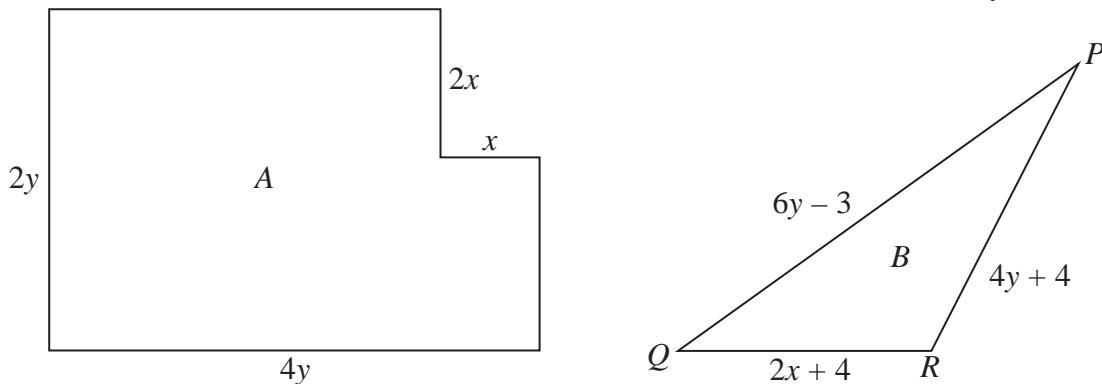


Figure 2

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The corners of shape A are all right angles.

The area of shape A is 400 m^2

Shape B is triangle PQR.

The perimeter of shape A is equal to the perimeter of shape B.

(a) Show that $4y^2 - x^2 = 200$ and that $2y = 2x + 5$

(3)

(b) Find the value of x and the value of y .

Show clear algebraic working.

(5)



Question 9 continued

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Question 9 continued

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(Total for Question 9 is 8 marks)



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