

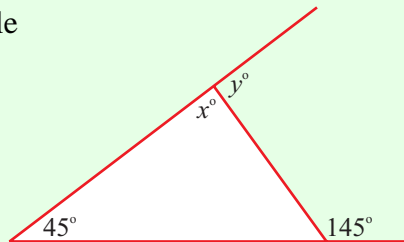
GEOMETRY (Q 4, PAPER 2)

2007

- 4 (a) In the diagram, two sides of the triangle are produced.

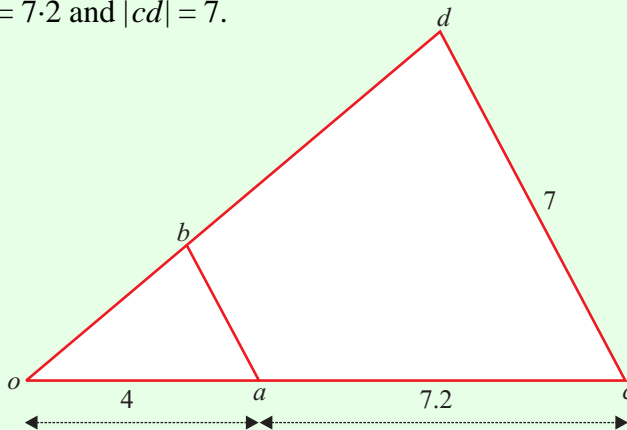
(i) Find x .

(ii) Find y .



- (b) Prove that the products of the lengths of the sides of a triangle by the corresponding altitudes are equal.

- (c) The triangle ocd is the image of the triangle oab under an enlargement with centre o .
 $|oa| = 4$, $|ac| = 7.2$ and $|cd| = 7$.



- (i) Find the scale factor of the enlargement.

(ii) Find $|ab|$.

- (iii) The area of the triangle oab is 4.5 square units.
Find the area of the triangle ocd .

ANSWERS

4 (a) (i) 100°

(ii) 80°

(c) (i) 2.8

(ii) 2.5

(iii) 35.28 square units