## Geometry (Q 4, Paper 2)

## 1999

4 (a) $a b c$ is a triangle with $|a b|=8,|b c|=4$ and $|\angle a c b|=90^{\circ}$.
Calculate |ac|, correct to two places of decimals.

(b) Prove that the sum of the lengths of any two sides of a triangle is greater than that of the third side.
(c) The triangle ocd is the image of the triangle $o p q$ under the enlargement, centre $o$, with $|p q|=4,|o p|=5$ and $|c d|=9$.
(i) Find the scale factor of the enlargement.
(ii) Find $|p c|$.
(iii) The area of the triangle ocd is 60.75 square units. Find the area of the triangle opq.


## Answers

4 (a) 6.93
(c) (i) 2.25
(ii) 6.25
(iii) 12 square units

