

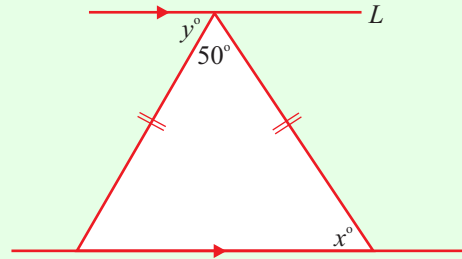
GEOMETRY (Q 4, PAPER 2)

2005

- 4 (a) In the diagram, the line L is parallel to the base of the isosceles triangle.

(i) Find x .

(ii) Find y .



- (b) Prove that a line which is parallel to one side-line of a triangle, and cuts a second side, will cut the third side in the same proportion as the second.

- (c) (i) Draw a square $opqr$ with sides 8 cm.

(ii) Draw the image of this square under the enlargement with centre o and scale factor 0.25.

(iii) Calculate the area of this image square.

(iv) Under another enlargement the area of the image of the square $opqr$ is 100 cm^2 . What is the scale factor of this enlargement?

ANSWERS

4 (a) (i) 65° (ii) 65°

(c) (iii) 4 cm^2 (iv) 1.25