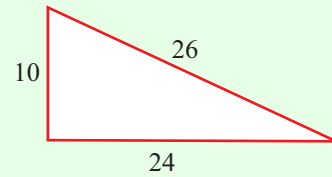


GEOMETRY (Q 4, PAPER 2)

2001

- 4 (a) Prove that the triangle with sides of lengths 10 units, 24 units and 26 units is right-angled.



- (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 with sides 7 cm and mark o , the point of intersection of the diagonals.
- (ii) Draw the image of the square under the enlargement with centre o and scale factor $\frac{1}{2}$.
- (iii) Calculate the area of the image square.
- (iv) Under another enlargement the area of the image of the square with sides 7 cm is 196 cm^2 .
What is the scale factor of this enlargement?

ANSWERS

4 (c) (iii) 12.25 cm^2 (iv) 2