GEOMETRY (Q 4, PAPER 2)

2000



- (b) Prove that in a right-angled triangle, the square of the length of the side opposite to the right-angle is equal to the sum of the squares of the lengths of the other two sides.
- (c) The triangle *cde* is the image of the triangle *cab* under an enlargement with centre *c*. |ca| = 12, |ad| = 9 and |cb| = 8.
 - (i) Find the scale factor of the enlargement.
 - (ii) Find |be|.
 - (iii) The area of the triangle *cde* is 98 square units.Find the area of the triangle *cab*.



d





