## Geometry (Q 4, Paper 2)

## 2006

4 (a) In the diagram $L \| K$. Find the value of $x$.

(b) Prove that if the lengths of two sides of a triangle are unequal, then the degreemeasures of the angles opposite to them are unequal, with the greater angle opposite to the longer side.
(c) (i) Construct a triangle $a b c$ in which $|a b|=6.5 \mathrm{~cm},|b c|=2.5 \mathrm{~cm}$ and $|a c|=6 \mathrm{~cm}$.
(ii) Construct the image of the triangle $a b c$ under the enlargement of scale factor 1.8 and centre $c$.
(iii) Given that the area of triangle $a b c$ is $7.5 \mathrm{~cm}^{2}$, find the area of the image triangle.

## Answers

$4 \quad$ (a) 3.6
(c) (iii) $24.3 \mathrm{~cm}^{2}$

