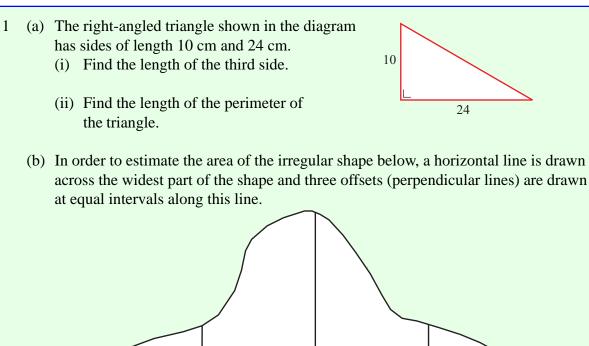
AREA & VOLUME (Q 1, PAPER 2)

2007



- (i) Measure the horizontal line and the offsets, in centimetres. Make a rough sketch of the shape in your answerbook and record the measurements on it.
- (ii) Use Simpson's Rule with these measurements to estimate the area of the shape.
- (c) A team trophy for the winners of a football match is in the shape of a sphere supported on a cylindrical base, as shown. The diameter of the sphere and of the cylinder is 21 cm.
 - (i) Find the volume of the sphere, in terms of π .
 - (ii) The volume of the trophy is 6174π cm³. Find the height of the cylinder.



