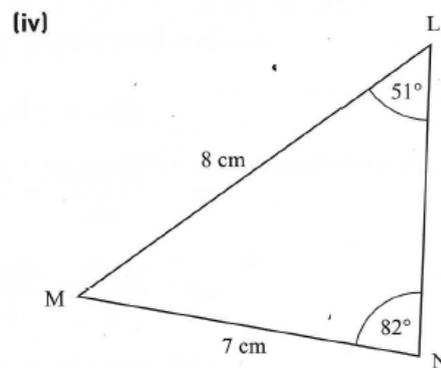# The Area Rule

Exercise

1 Find the area of each of the following triangles.

(i)

(ii)

(iii)

(iv)
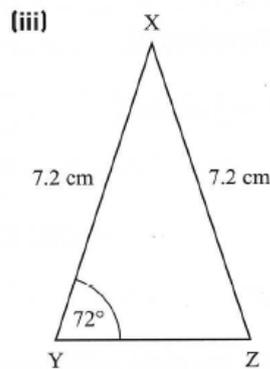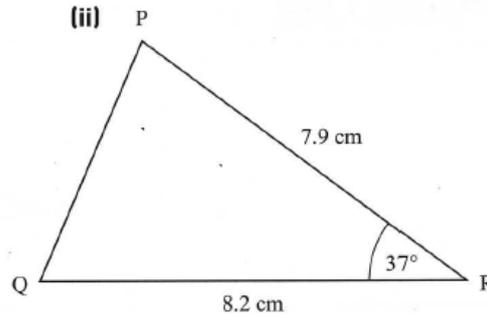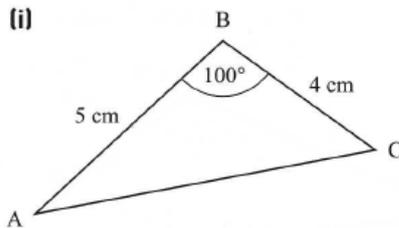
2 A regular hexagon is made up of six equilateral triangles. Find the area of a regular hexagon of side 7 cm.

3 A pyramid on a square base has four identical triangular faces which are isosceles triangles with equal sides 9 cm and equal angles 72°.
   (i) Find the area of a triangular face.
   (ii) Find the length of a side of the base.
   (iii) Hence find the total surface area of the pyramid.

4.

A regular tetrahedron has four sides, each of which is an equilateral triangle of side 10 cm. Find the total surface area of the tetrahedron.