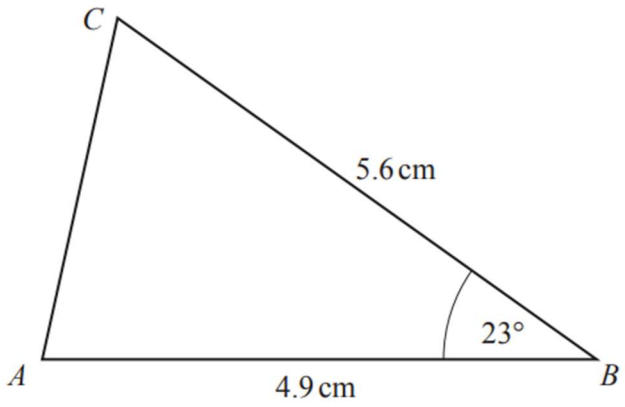
20

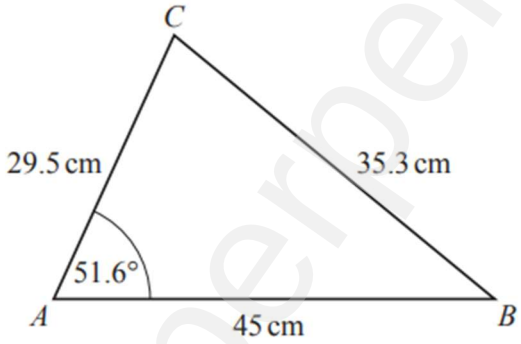


NOT TO SCALE

Calculate the area of triangle ABC.

..... cm^2 [2]

4 (a)



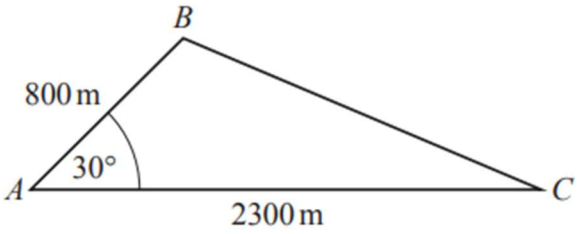
NOT TO SCALE

In triangle ABC, $AB = 45$ cm, $AC = 29.5$ cm, $BC = 35.3$ cm and angle $CAB = 51.6°$.

(ii) Calculate the area of triangle ABC.

..... cm^2 [2]

18



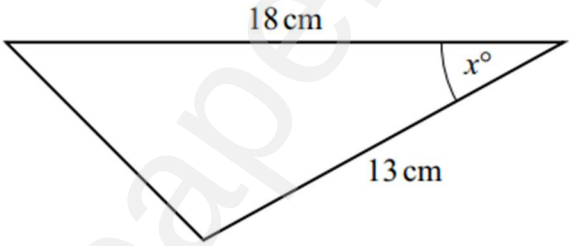
NOT TO SCALE

The diagram shows some land in the shape of a triangle ABC.
Houses are built on this land.
Each house requires $400\,m^2$ of land.

Find the greatest number of houses that can be built on this land.

..... [3]

17



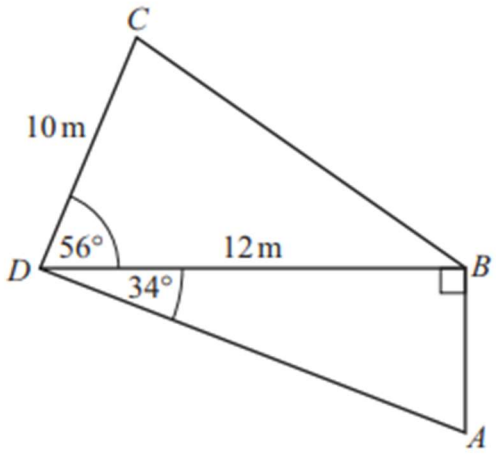
NOT TO SCALE

The area of the triangle is $50\,cm^2$.

Calculate the value of $\sin x$.

$\sin x =$ ..... [2]

20



NOT TO SCALE

The diagram shows a quadrilateral $ABCD$.
$CD = 10$ m and $DB = 12$ m.
Angle $DBA = 90°$, angle $CDB = 56°$ and angle $ADB = 34°$.

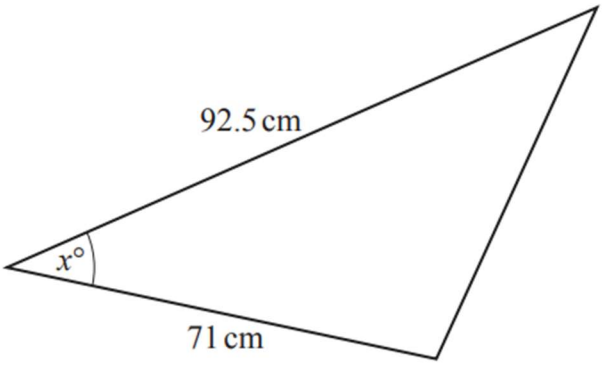
(a) Calculate the length of AB.

$AB =$ ..... m [2]

(b) Calculate the area of the quadrilateral $ABCD$.

..... m^2 [3]

17



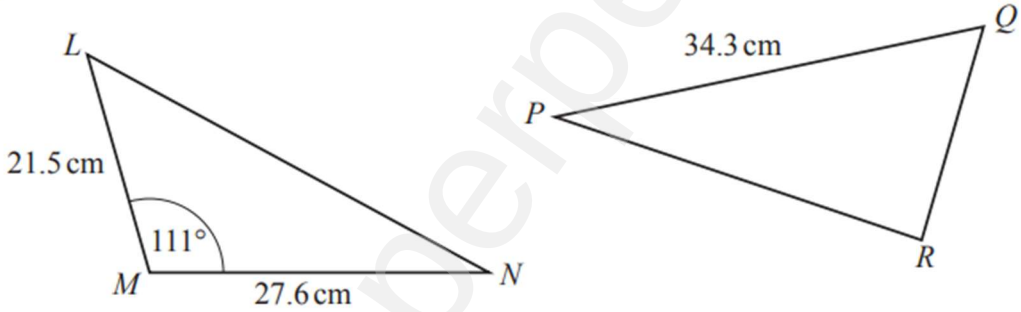
NOT TO SCALE

The diagram shows a triangle with an acute angle marked $x°$.
The area of the triangle is $2143\,cm^2$.

Work out the value of x.

$x =$ ..... [2]

(b)



NOT TO SCALE

Triangle PQR has the same area as triangle LMN.

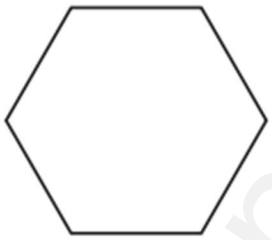
Calculate the shortest distance from R to the line PQ.

..... cm [3]

22 Find the area of a regular hexagon with side length 7.4 cm.

..... cm^2 [3]

(b)



NOT TO SCALE

The diagram shows a regular hexagon.
The area of the hexagon is 127.3 cm^2.

(i) Show that the length of one side of the hexagon is 7.0 cm, correct to 1 decimal place.

[4]