18.
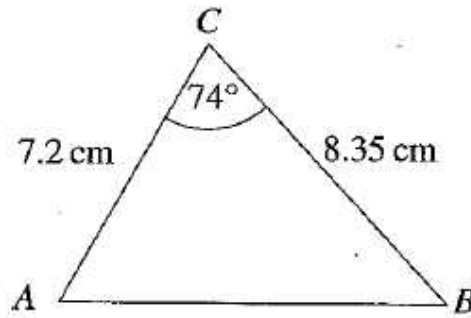

Diagram **NOT**
accurately drawn

The diagram shows triangle *ABC*.
AC = 7.2 cm.
BC = 8.35 cm.
Angle *ACB* = 74°.

(a) Calculate the area of triangle *ABC*.
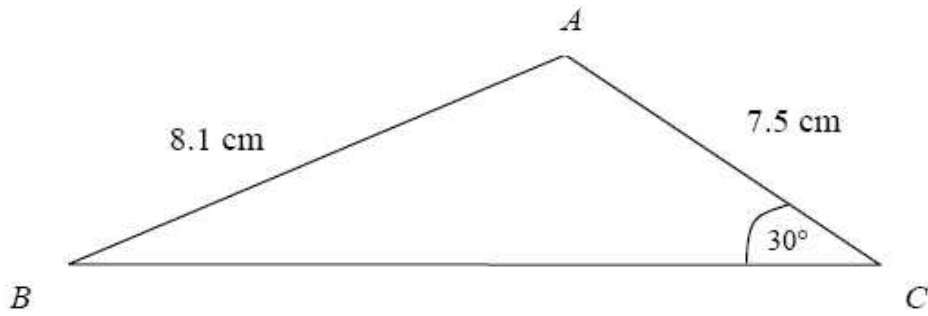Give your answer correct to 3 significant figures.
Give the units with your answer.

....

(3)

(b) Calculate the length of *AB*.
Give your answer correct to 3 significant figures.

14.

In triangle *ABC*,

AB = 8.1 cm,
AC = 7.5 cm,
angle ACB = 30°.

(a)   Calculate the size of angle *ABC*.
        Give your answer correct to 3 significant figures.

...........................°

(3)

(b)   Calculate the area of triangle *ABC*.
        Give your answer correct to 3 significant figures.
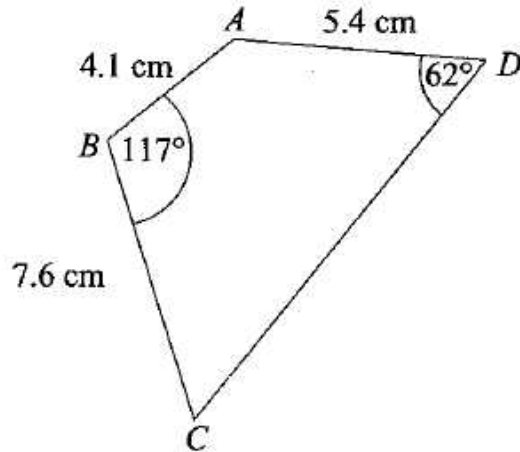
.......................cm^2

(3)

16.

Diagram **NOT** accurately drawn.

The diagram shows a quadrilateral *ABCD*.
AB = 4.1 cm.
BC = 7.6 cm.
AD = 5.4 cm.
Angle *ABC* = 117°.
Angle *ADC* = 62°.

(*a*) Calculate the length of *AC*.
   Give your answer correct to 3 significant figures.

(*b*) Calculate the area of triangle *ABC*.
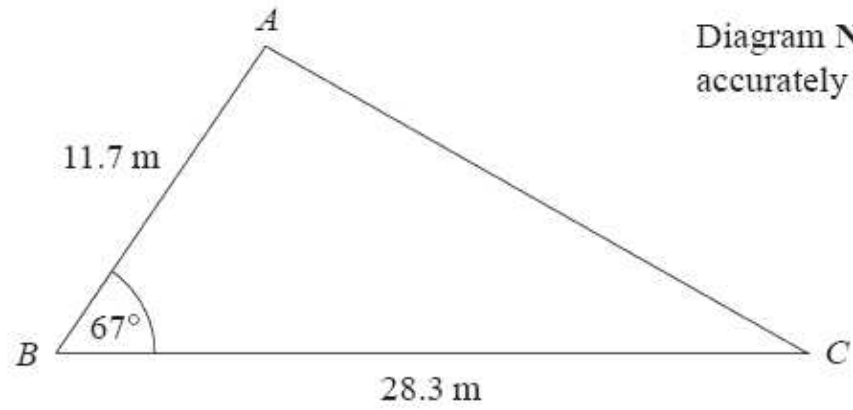   Give your answer correct to 3 significant figures.

.... cm²
(2 marks)

(*c*) Calculate the area of the quadrilateral *ABCD*.
   Give your answer correct to 3 significant figures.

(6 marks)

12.

Diagram **NOT** accurately drawn

$AB = 11.7$ m.
$BC = 28.3$ m.
Angle $ABC = 67°$.

(a) Calculate the area of triangle ABC.
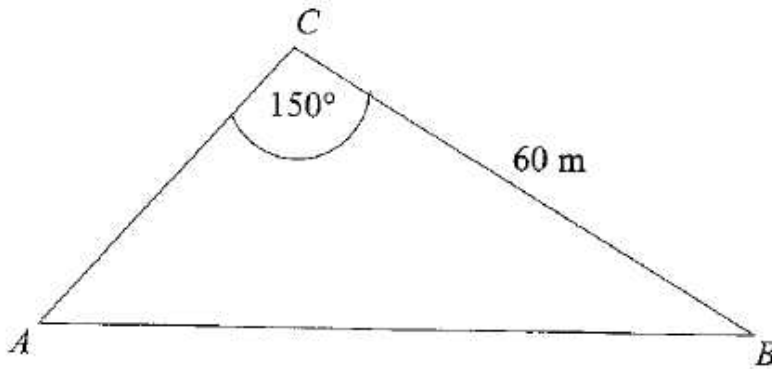Give your answer correct to 3 significant figures.

.... m^2

(2)

(b) Calculate the length of AC.
Give your answer correct to 3 significant figures.

.... m

(3)

20.

Angle $ACB = 150°$.
$BC = 60$ m.

The area of triangle ABC is 450 m².

Calculate the perimeter of triangle ABC.
Give your answer correct to 3 significant figures.

.... m

(Total 5 marks)