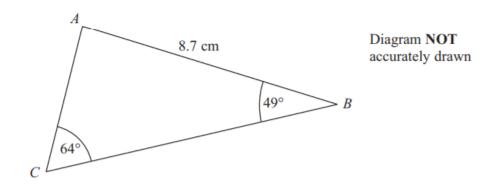
Sine and Cos Rule and Area Past Paper Questions Edexcel Maths GCSE Higher Calculator

1.



ABC is a triangle.

AB = 8.7 cm.

Angle $ABC = 49^{\circ}$.

Angle $ACB = 64^{\circ}$.

Calculate the area of triangle ABC.

Give your answer correct to 3 significant figures.

ABC is a triangle.

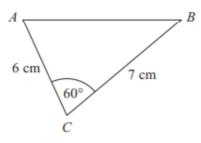


Diagram NOT accurately drawn

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

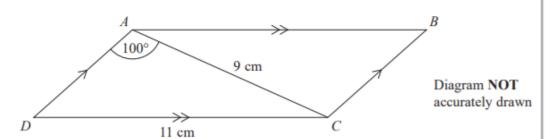
......cm²

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

(3)

(Total for Question 74 is 5 marks)

ABCD is a parallelogram.



AC = 9 cm DC = 11 cm Angle $DAC = 100^{\circ}$

Calculate the area of the parallelogram.

Give your answer correct to 3 significant figures.

..... cm²

(Total for Question 7 is 5 marks)

Here is a parallelogram.

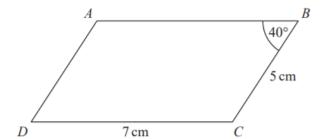


Diagram **NOT** accurately drawn

DC = 7 cm CB = 5 cmAngle ABC is 40°

Work out the area of the parallelogram. Give your answer correct to 1 decimal place.

..... cm²

(Total for Question 1 is 3 marks)

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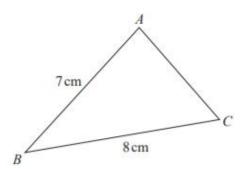


Diagram NOT accurately drawn

ABC is an acute-angled triangle.

 $BA = 7 \,\mathrm{cm}$

 $BC = 8 \,\mathrm{cm}$

The area of triangle ABC is 18 cm².

Work out the size of angle BAC.

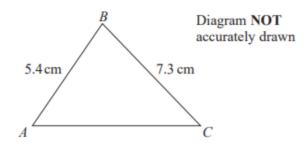
Give your answer correct to 3 significant figures.

You must show all your working.

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(Total for Question 25 is 6 marks)

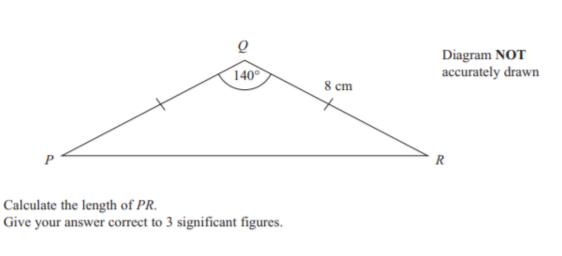
ABC is an acute angled triangle.



The area of triangle ABC is 19 cm².

Work out the size of angle *ACB*. Give your answer correct to 3 significant figures.

(Total for Question 7 is 6 marks)	
	0



.....cm

(Total for Question 20 is 3 marks)

The diagram shows the triangle PQR.

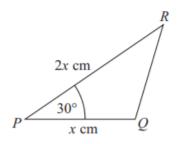


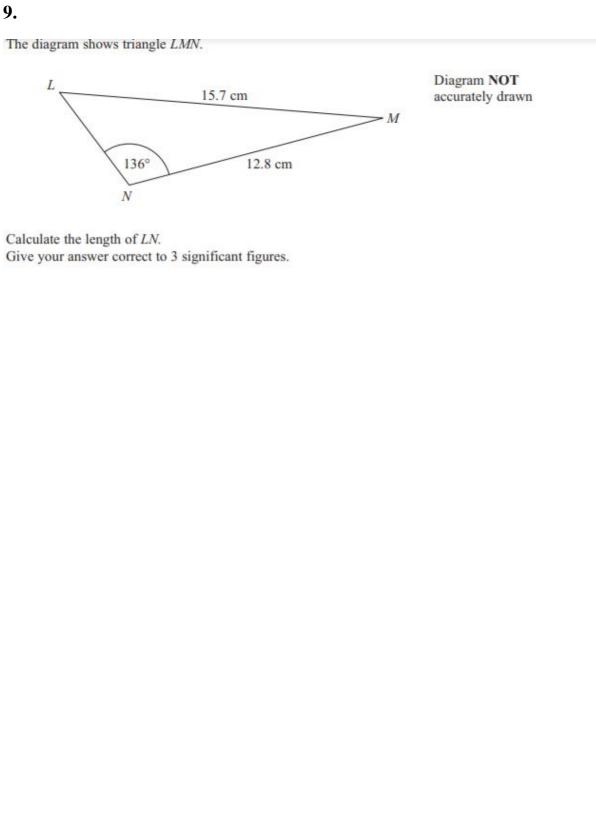
Diagram **NOT** accurately drawn

$$PQ = x$$
 cm
 $PR = 2x$ cm
Angle $QPR = 30^{\circ}$

The area of triangle $PQR = A \text{ cm}^2$

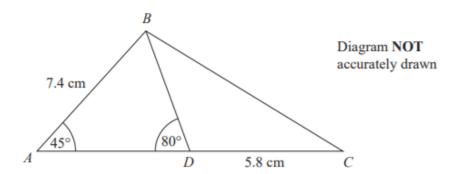
Show that
$$x = \sqrt{2A}$$

(Total for Question 25 is 3 marks)



(Total for Question is 5 marks)

cm



ABC is a triangle. D is a point on AC. Angle $BAD = 45^{\circ}$ Angle $ADB = 80^{\circ}$ AB = 7.4 cmDC = 5.8 cm

Work out the length of BC.

Give your answer correct to 3 significant figures.

.....cm

(Total for Question 21 is 5 marks)

ABC is a triangle.

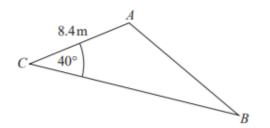


Diagram NOT accurately drawn

 $AC = 8.4 \,\mathrm{m}$ Angle $ACB = 40^{\circ}$

The area of the triangle = $100 \,\text{m}^2$.

Work out the length of AB.

Give your answer correct to 3 significant figures.

You must show all your working.

(Total for Question 2 & 5 marks)	