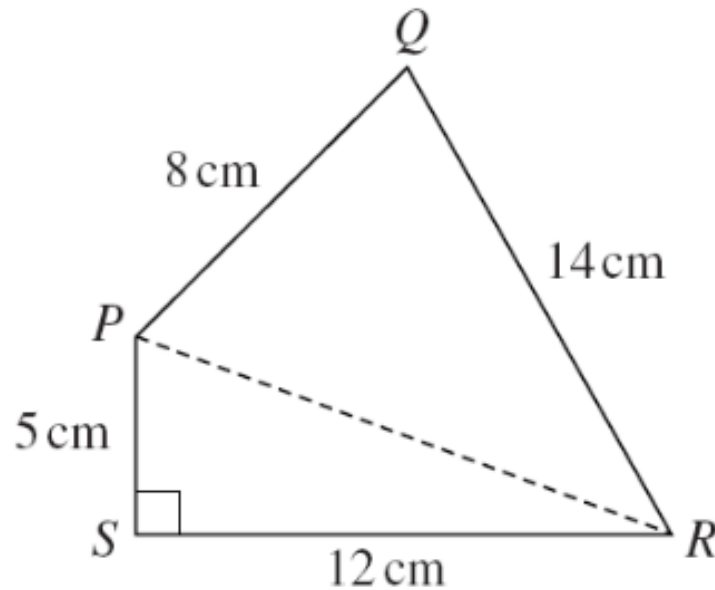


- Q1)** The quadrilateral $PQRS$ has dimensions as shown.
Angle $PSR = 90^\circ$

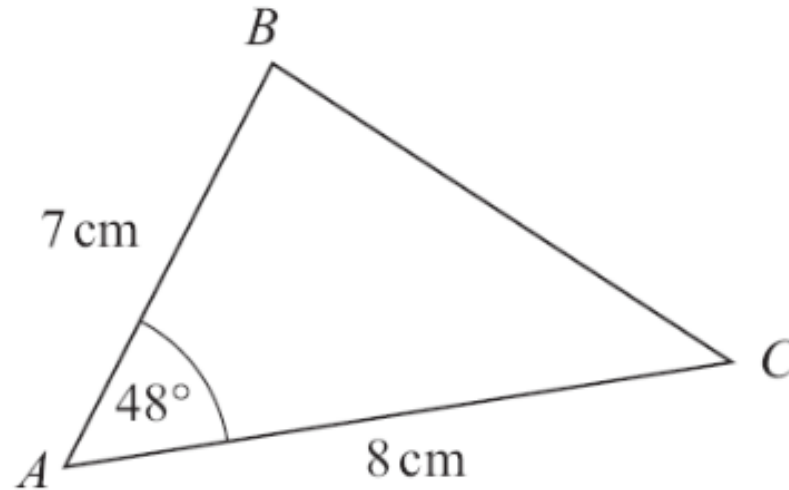


**Not drawn
accurately**

Calculate the area of triangle PQR .

[5 marks]

Q2) ABC is a triangle.



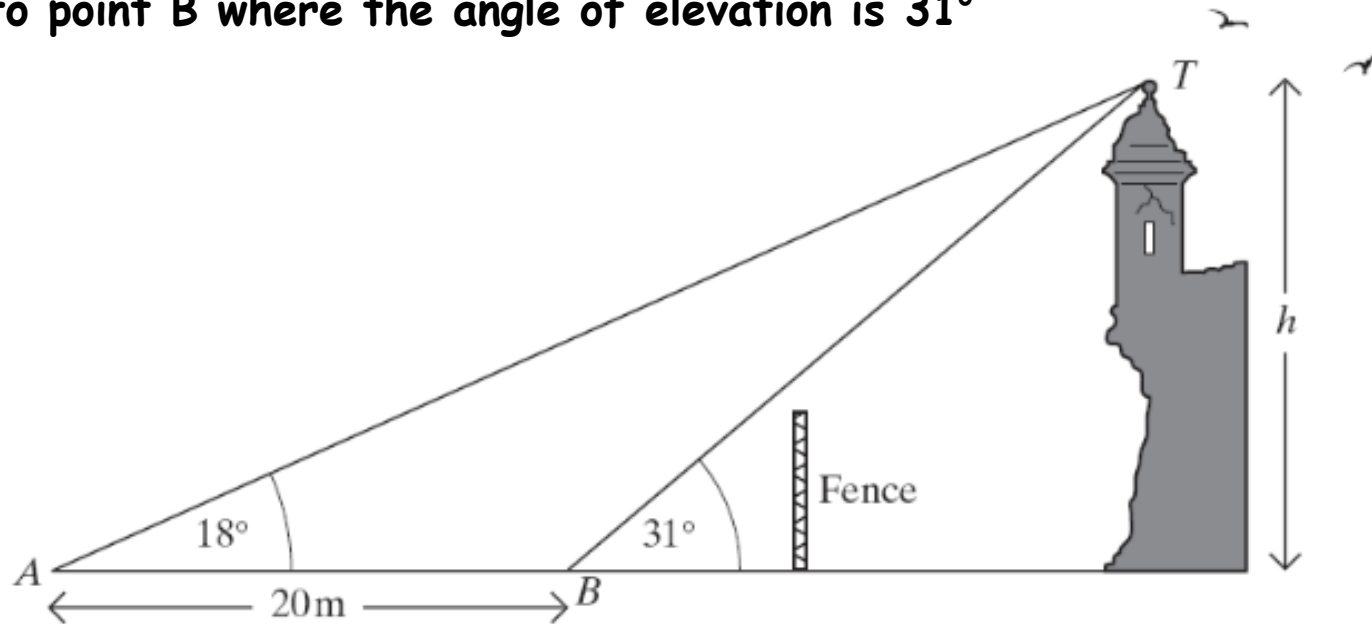
(a) Calculate the length of side BC .

[3 marks]

(b) Find the size of angle BCA .

[3 marks]

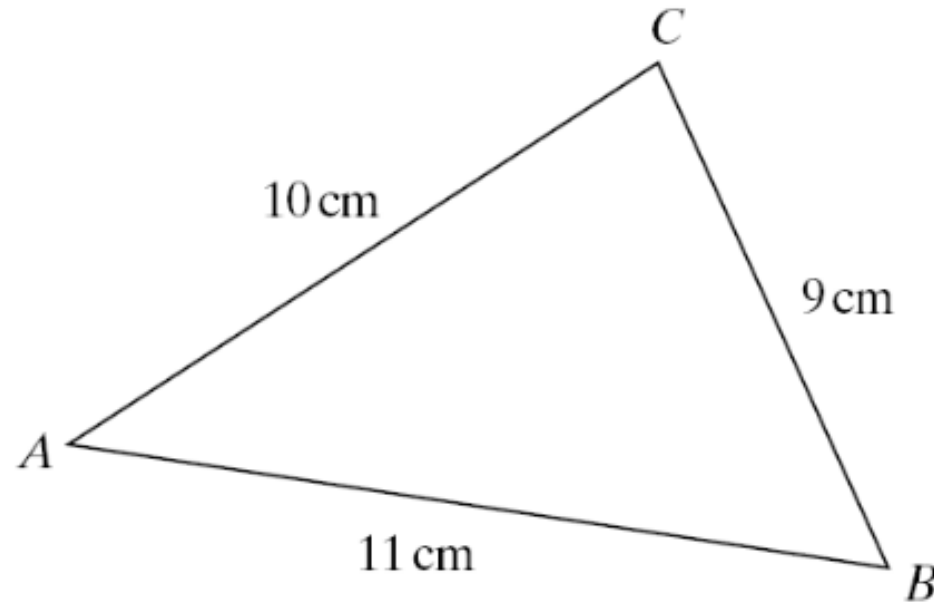
- Q3)** A ruined tower is fenced off for safety reasons. To find the height of the tower Rashid stands at a point A and measures the angle of elevation as 18° . He then walks 20 metres directly towards the base of the tower to point B where the angle of elevation is 31° .



Calculate the height, h , of the tower.

[6 marks]

Q4) In triangle ABC , $AB = 11$ cm, $BC = 9$ cm and $CA = 10$ cm.



Find the area of triangle ABC .

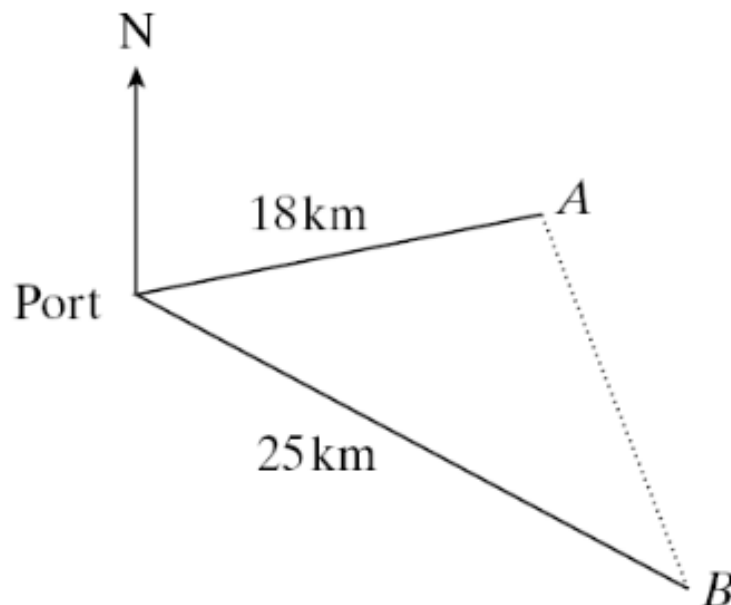
[5 marks]

Q5)

Two ships, A and B , leave port at 1300 hours.

Ship A travels at a constant speed of 18 km per hour on a bearing of 070° .

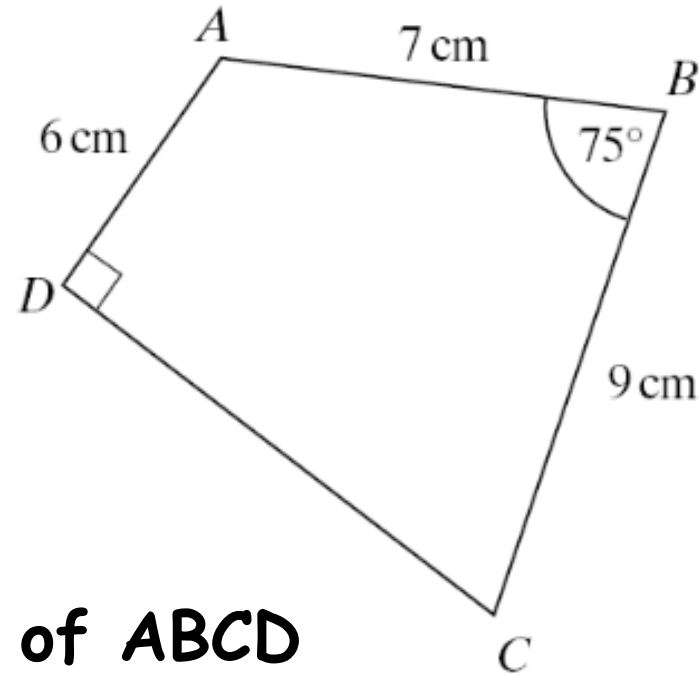
Ship B travels at a constant speed of 25 km per hour on a bearing of 152° .



Calculate the distance between A and B at 1400 hours.

[4 marks]

- Q6)** $ABCD$ is a quadrilateral.
 $AB = 7$ cm, $AD = 6$ cm and $BC = 9$ cm.
Angle $ABC = 75^\circ$ and angle $ADC = 90^\circ$



Calculate the perimeter of ABCD

[5 marks]