

Non-right-angled triangles

1. June 2016 (3H) Q22

The diagram shows a pentagon.

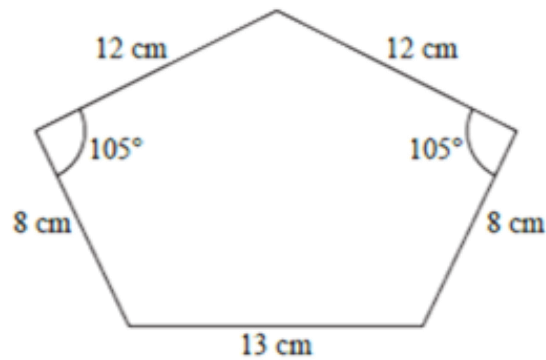


Diagram NOT accurately drawn

Work out the area of the pentagon.
Give your answer correct to 3 significant figures.

2. Jan 2017 (3H) Q15

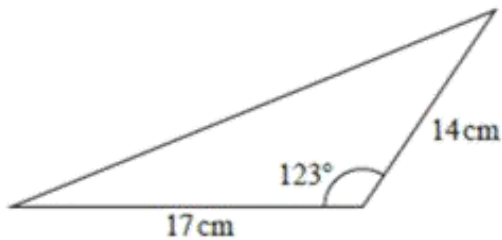


Diagram NOT accurately drawn

Calculate the perimeter of the triangle.
Give your answer correct to 1 decimal place.

5. June 2017 (3HR) Q14

$ABCDE$ is a regular pentagon with sides of length 10 cm.

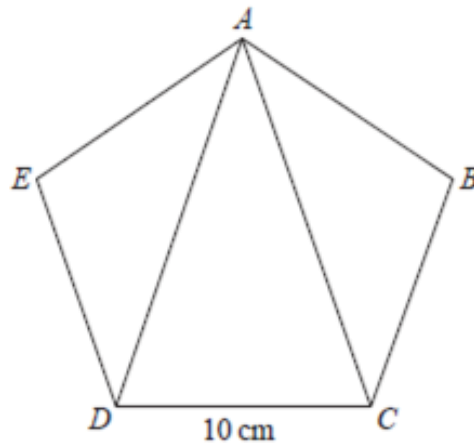


Diagram NOT accurately drawn

Calculate the area of triangle ACD .
Give your answer correct to 3 significant figures.

6. June 2017 (4HR) Q19

$ABCD$ is a kite.

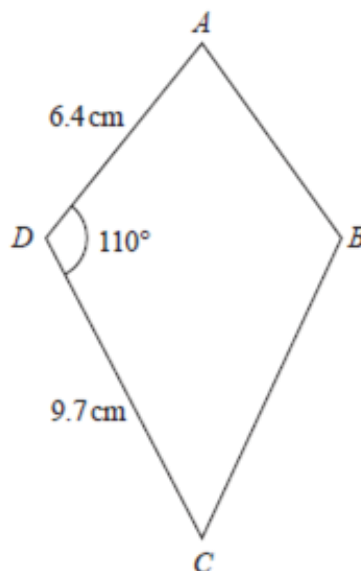


Diagram NOT accurately drawn

Work out the area of the kite.
Give your answer correct to 3 significant figures.

7. June 2017 (4H) Q21

$LMNP$ is a quadrilateral.

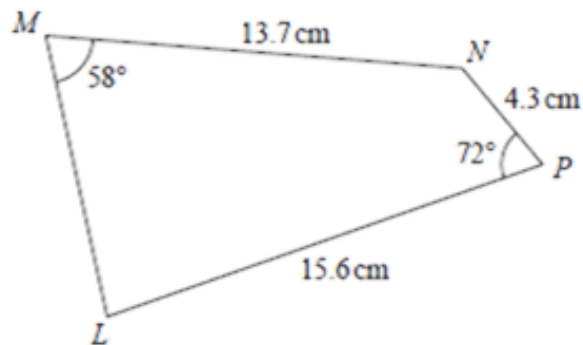


Diagram NOT accurately drawn

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

8. June 2018 (1HR) Q18

Here is a quadrilateral $PQRS$.

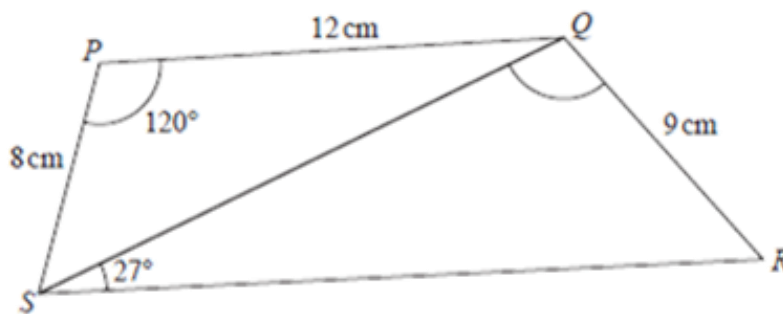


Diagram NOT accurately drawn

Angle SRQ is acute.

Work out the size of angle SQR .
Give your answer correct to 1 decimal place.

12. Jan 2019 (1H) Q17

Here is triangle ABC .

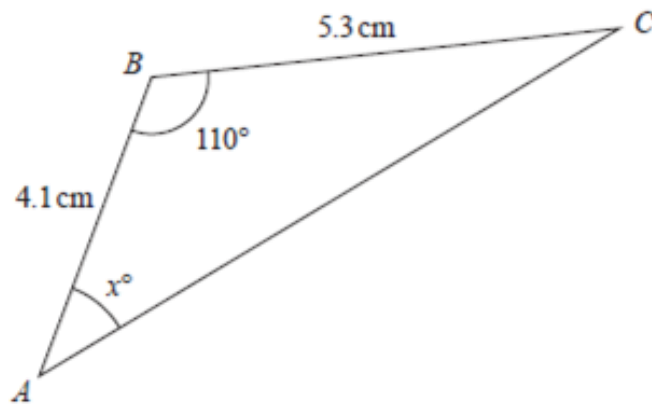


Diagram NOT
accurately drawn

Calculate the value of x .
Give your answer correct to 3 significant figures.

13. Jan 2019 (1HR) Q21

Here is a triangle XYZ .

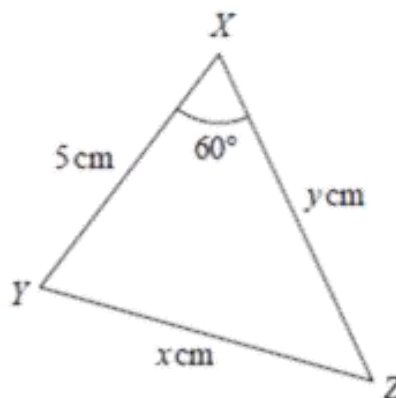


Diagram NOT
accurately drawn

The perimeter of the triangle is $k\text{ cm}$.

Given that $x = y - 1$

find the value of k .

Show your working clearly.