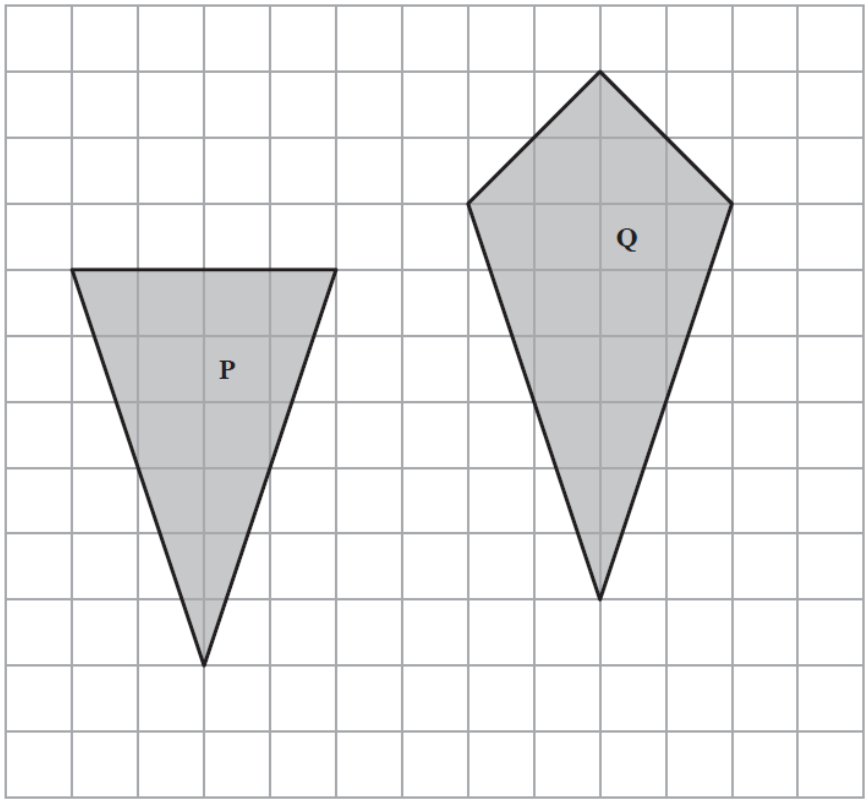
1 The diagram shows two shapes drawn on a centimetre grid.



(a) Find the area of shape **P**.

.....

(2)

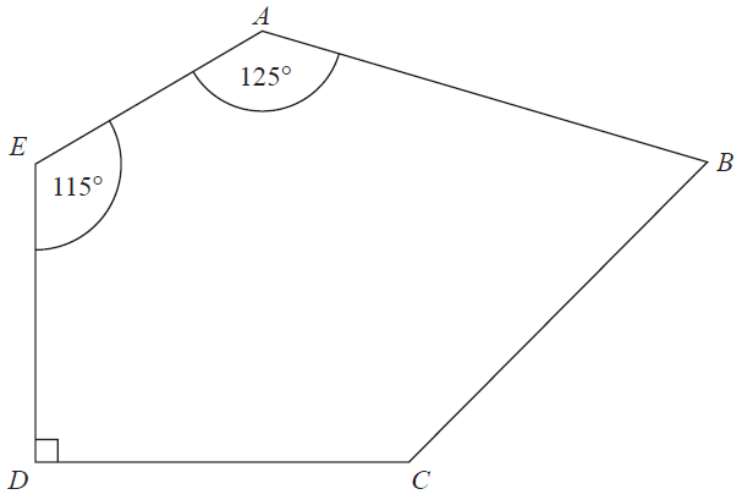
(b) Write down the mathematical name of quadrilateral **Q**.

.....

(1)

(Total for Question is 3 marks)

2 *ABCDE* is a pentagon.



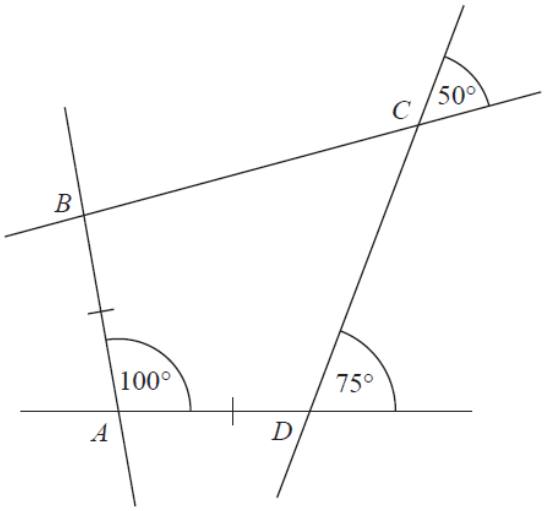
Angle *BCD* = 2 × angle *ABC*

Work out the size of angle *BCD*.
You must show all your working.

.....°

(Total for Question is 5 marks)

3 The diagram shows quadrilateral $ABCD$ with each of its sides extended.



$AB = AD$

Show that $ABCD$ is a kite.
Give a reason for each stage of your working.

(Total for Question is 4 marks)

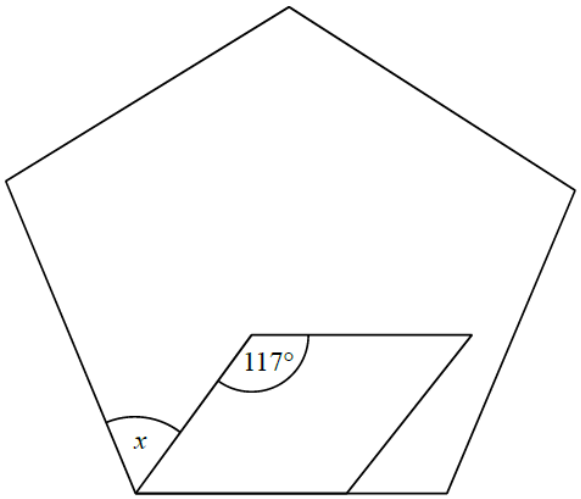
4 The size of each interior angle of a regular polygon is 11 times the size of each exterior angle.

Work out how many sides the polygon has.

.....

(Total for Question is 3 marks)

5 The diagram shows a regular pentagon and a parallelogram.

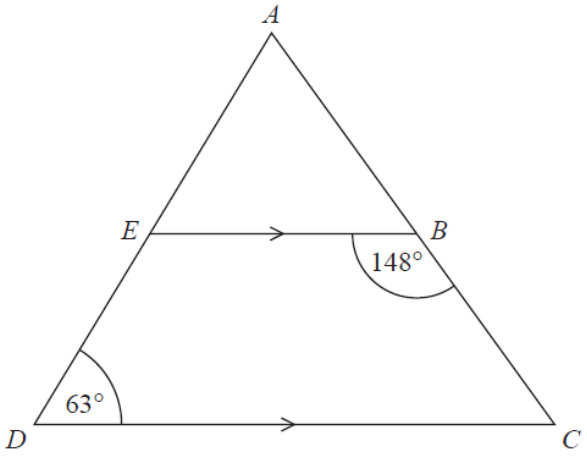


Work out the size of the angle marked x.
You must show all your working.

.....°

(Total for Question is 4 marks)

6 *ADC* is a triangle.



AED and *ABC* are straight lines.
EB is parallel to *DC*.

Angle *EBC* = 148°
Angle *ADC* = 63°

Work out the size of angle *EAB*.
You must give a reason for each stage of your working.

(Total for Question is 5 marks)

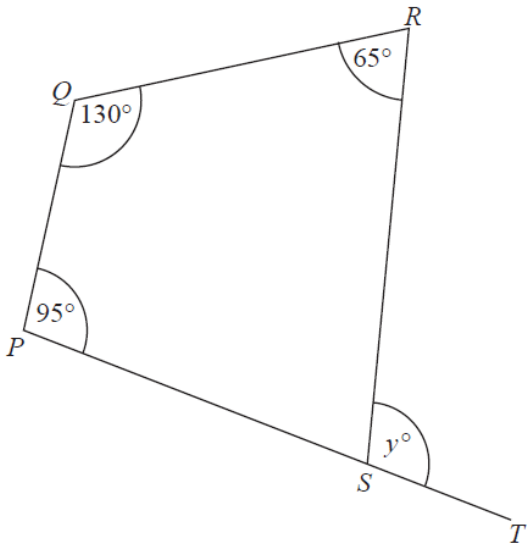
7 Each exterior angle of a regular polygon is 15°

Work out the number of sides of the polygon.

.....

(Total for Question is 2 marks)

8 *PQRS* is a quadrilateral.
PST is a straight line.



Find the value of y.

y = ...

(Total for Question is 3 marks)