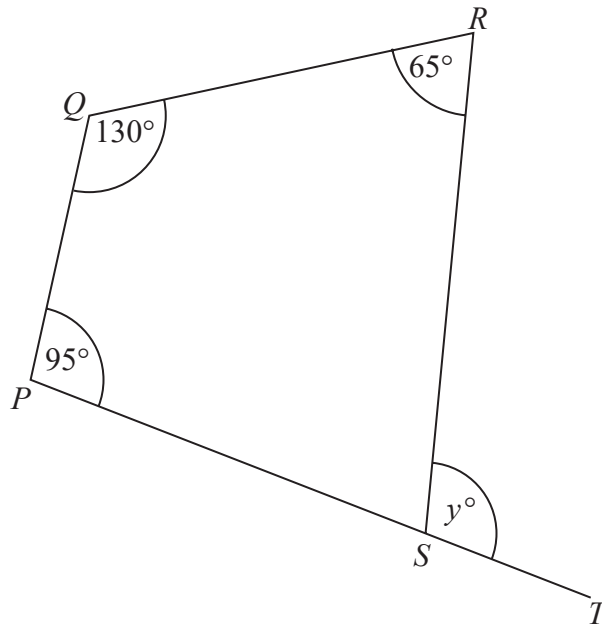


- 1 $PQRS$ is a quadrilateral.
 PST is a straight line.

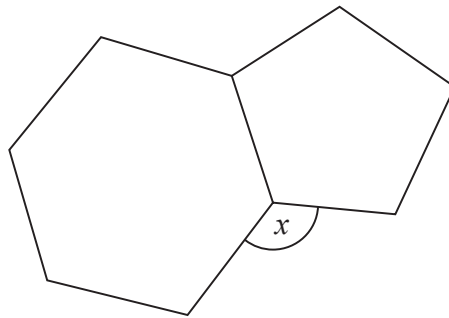


Find the value of y .

$$y = \dots\dots\dots$$

(Total for Question 1 is 3 marks)

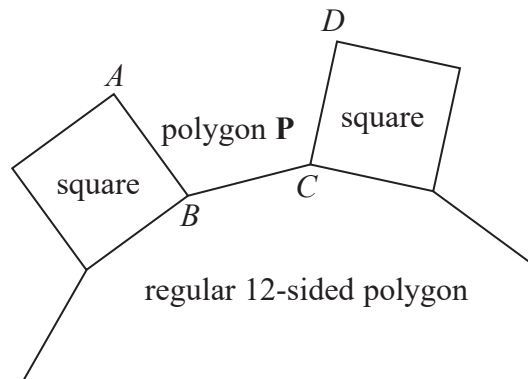
2 Here is a regular hexagon and a regular pentagon.



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

.....
(Total for Question 2 is 3 marks)

- 3 In the diagram, AB , BC and CD are three sides of a regular polygon P .



Show that polygon P is a hexagon.
You must show your working.

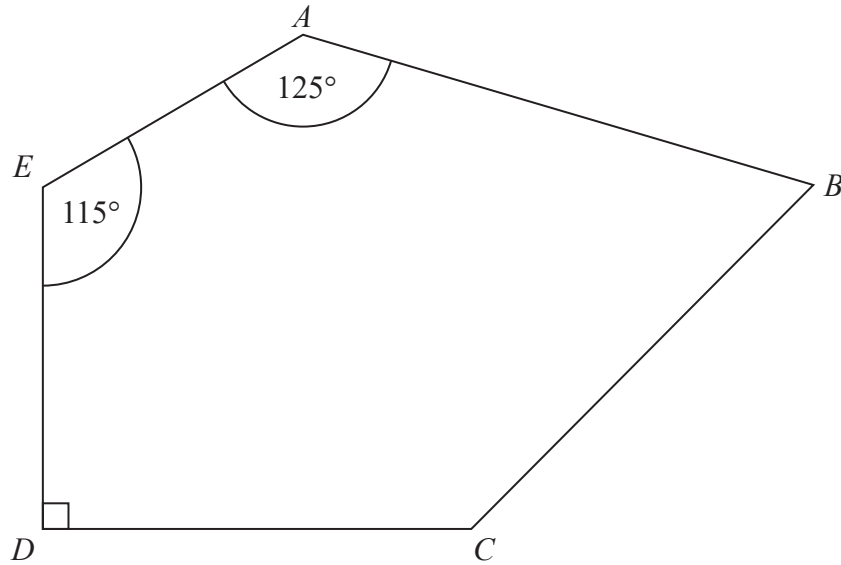
(Total for Question 3 is 4 marks)

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 4 is 3 marks)

5 $ABCDE$ is a pentagon.

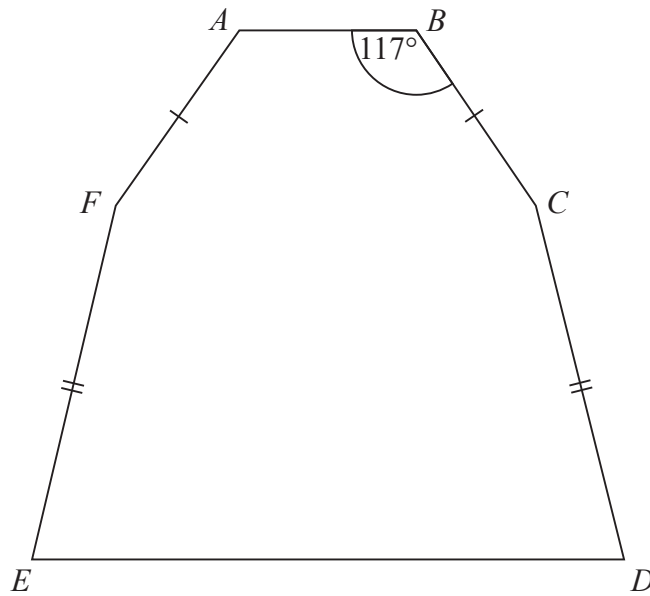


Angle $BCD = 2 \times$ angle ABC

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

.....
(Total for Question 5 is 5 marks)

- 6 The diagram shows a hexagon.
The hexagon has one line of symmetry.



$$FA = BC$$

$$EF = CD$$

$$\text{Angle } ABC = 117^\circ$$

$$\text{Angle } BCD = 2 \times \text{angle } CDE$$

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

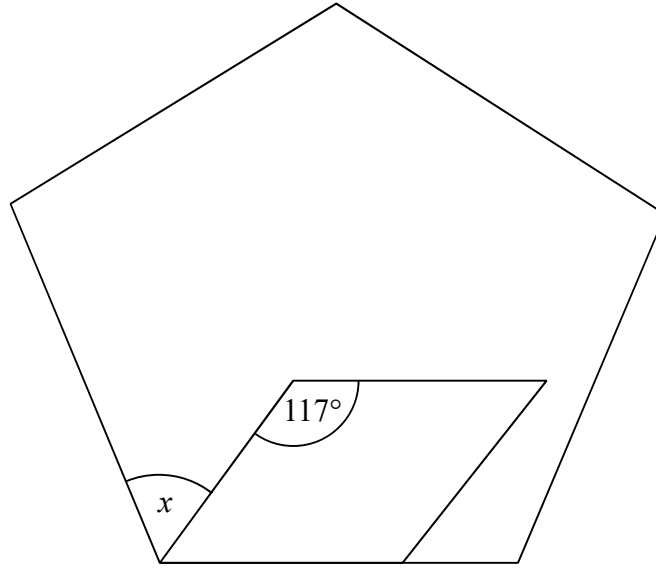
.....
(Total for Question 6 is 4 marks)

7 Each exterior angle of a regular polygon is 15°

Work out the number of sides of the polygon.

.....
(Total for Question 7 is 2 marks)

- 8 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 8 is 4 marks)