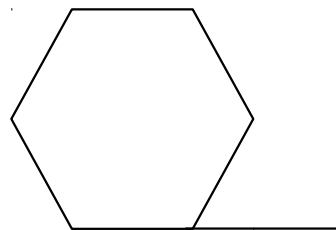


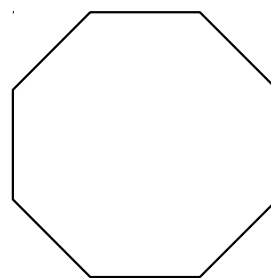
- 1 Work out the size of an exterior angle of a regular hexagon.



.....°

(Total for question 1 is 2 marks)

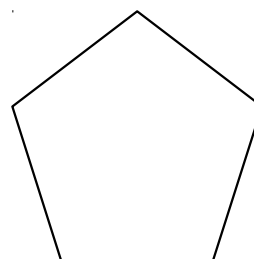
- 2 Work out the size of each interior angle in a regular octagon.



.....°

(Total for question 2 is 2 marks)

- 3 Work out the size of each interior angle in a regular pentagon



.....°

(Total for question 3 is 2 marks)

- 4 The size of each exterior angle in a regular polygon is 20° .
Work out how many sides the polygon has.

.....

(Total for question 4 is 2 marks)

- 5 The size of each exterior angle in a regular polygon is 18° .
Work out how many sides the polygon has.

.....

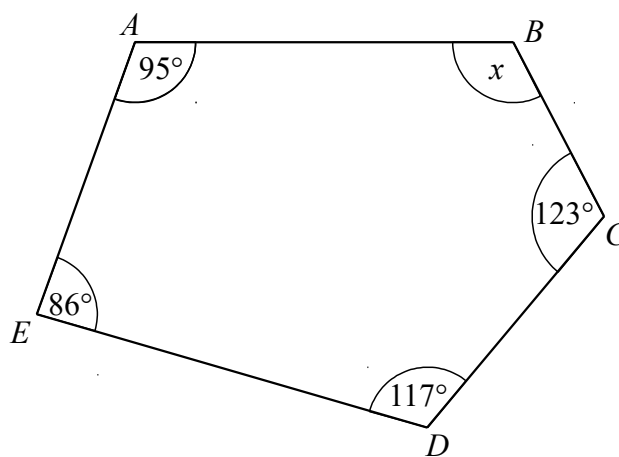
(Total for question 5 is 2 marks)

- 6 The size of each interior angle in a regular polygon is 165° .
Work out how many sides the polygon has.

.....

(Total for question 6 is 2 marks)

7

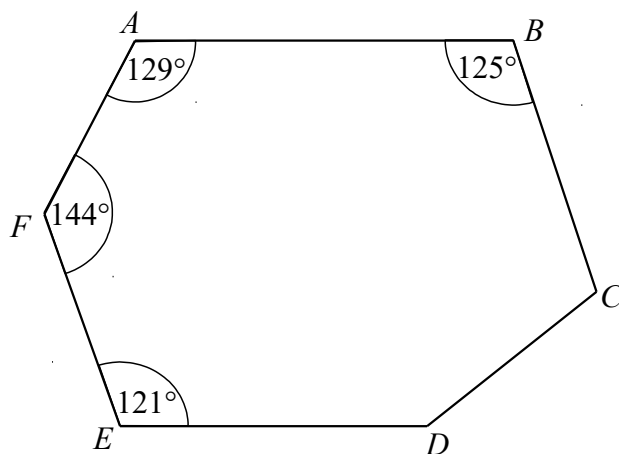


$ABCDE$ is a pentagon.

Work out the size of angle ABC .

.....^o
 (Total for question 7 is 2 marks)

8



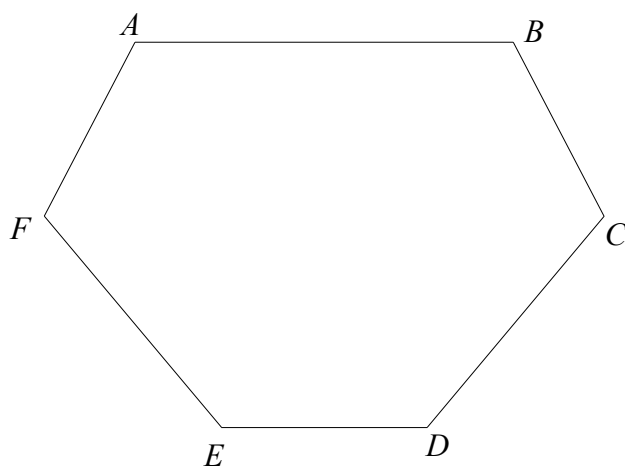
$ABCDEF$ is a hexagon.

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

Work out the size of angle CDE .

.....^o
 (Total for question 8 is 3 marks)

9



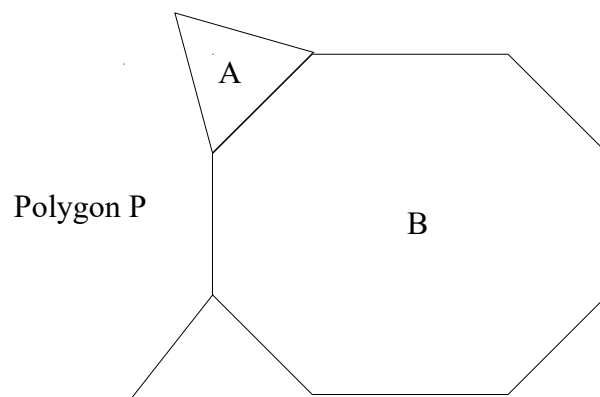
$ABCDEF$ is a hexagon.

Angle BAF = Angle ABC = Angle AFE = Angle BCD .
Angle DEF = Angle CDE = 130°

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

.....^o
(Total for question 9 is 3 marks)

10



Shape A is a regular triangle. Shape B is a regular octagon.

Another regular polygon, P, is shown on the diagram.

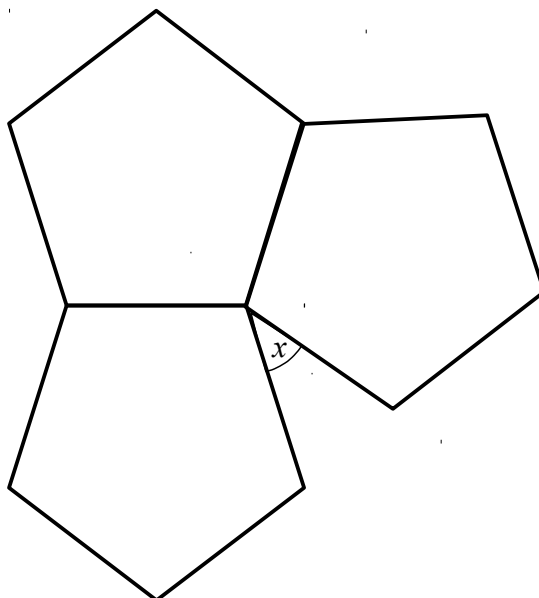
How many sides does polygon P have?

You must show your working.

.....

(Total for question 10 is 4 marks)

11

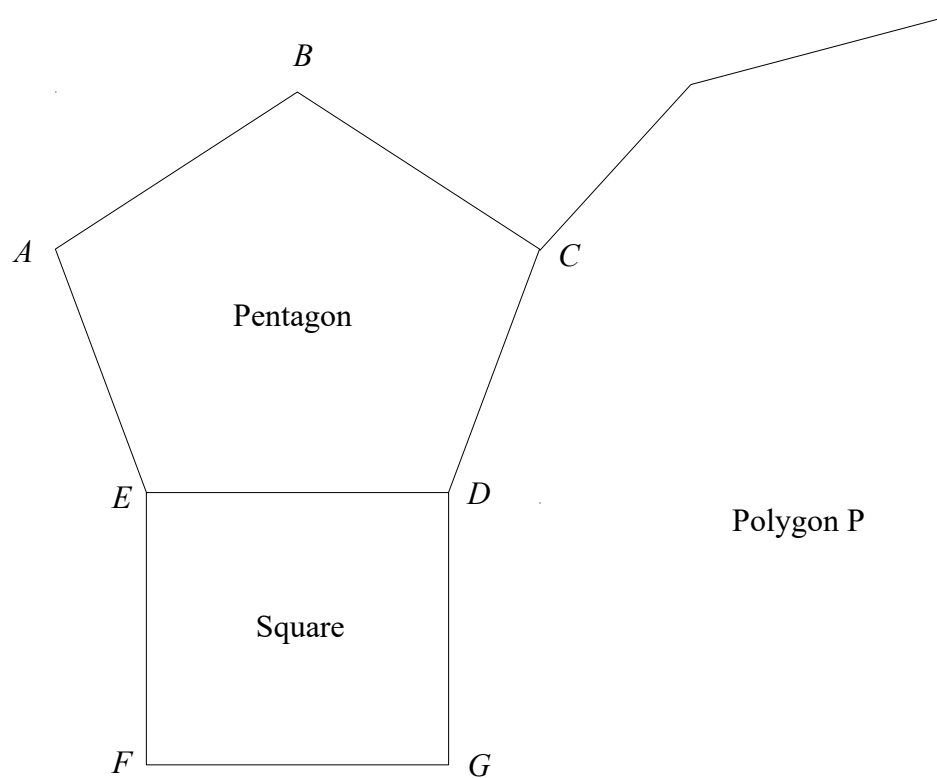


The diagram shows three regular pentagons meeting at a point.

Work out the size of the angle marked x .

You must show all your working.

.....^o
(Total for question 11 is 3 marks)



The diagram shows a regular pentagon, $ABCDE$, and a square, $EDFG$.

The lines CD and DG are both sides of another regular polygon, P .

How many sides does polygon P have?

You must show how you got your answer.