## **Exterior and Interior Angles Past paper questions Edexcel GCSE**

## **None Calculator**

1.

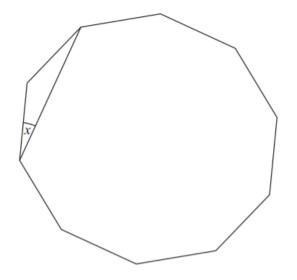


Diagram **NOT** accurately drawn

The diagram shows a regular decagon.

Work out the size of angle x.

(Total for Question 11 is 4 marks)

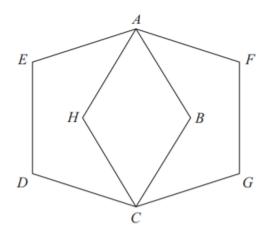


Diagram **NOT** accurately drawn

*ABCDE* and *AFGCH* are regular pentagons. The two pentagons are the same size.

Work out the size of angle *EAH*. You must show how you got your answer.

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(Total for Ouestion 10 is 4 marks)

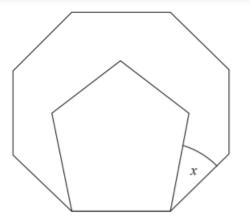


Diagram **NOT** accurately drawn

The diagram shows two regular polygons.

Find the size of the angle marked *x*. Give reasons for your answer.

(Total for Question 10 is 4 marks)

(i)

The interior angle of a regular polygon is 160°.

160°	Diagram <b>NOT</b> accurately drawn.
Write down the size of an exterior angle of the polygon.	

(ii) Work out the number of sides of the polygon.

(Total for Question 6 is 3 marks)

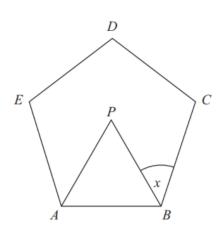


Diagram **NOT** accurately drawn

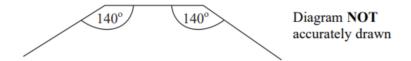
ABCDE is a regular pentagon. ABP is an equilateral triangle.

Work out the size of angle x.

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(Total for Question 8 is 4 marks)

The diagram shows 3 sides of a regular polygon.



Each interior angle of the regular polygon is 140°.

Work out the number of sides of the regular polygon.

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(Total for Question 6 is 3 marks)

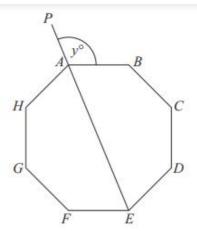


Diagram NOT accurately drawn

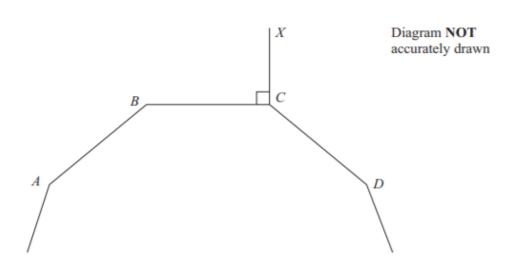
ABCDEFGH is a regular octagon. PAE is a straight line.

Angle  $PAB = y^{\circ}$ 

Work out the value of y

y = .....

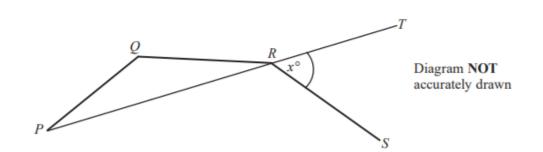
(Total for Question 9 is 4 marks)



A, B, C and D are four vertices of a regular 10-sided polygon. Angle  $BCX = 90^{\circ}$ .

Work out the size of angle DCX.

(Total for Question 10 is 3 marks)



*PQ, QR* and *RS* are 3 sides of a regular decagon. *PRT* is a straight line. Angle  $TRS = x^{\circ}$ 

Work out the value of x

x	=	
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(Total for Question 4 = 5 marks)