

10. June 2018 (3HR) Q5

The size of each exterior angle of a regular polygon is 24°

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

(2)

Here is a pentagon.

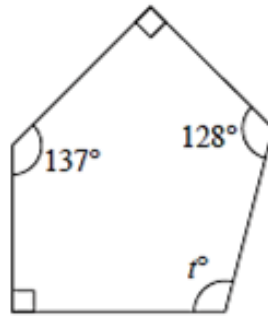


Diagram NOT
accurately drawn

(b) Work out the value of t .

(3)

(Total for Question 5 is 5 marks)

11. Jan 2019 (2HR) Q6

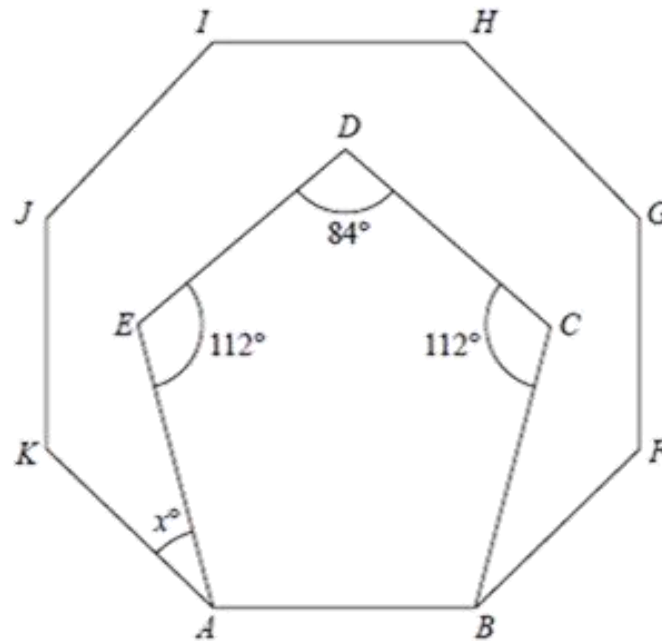


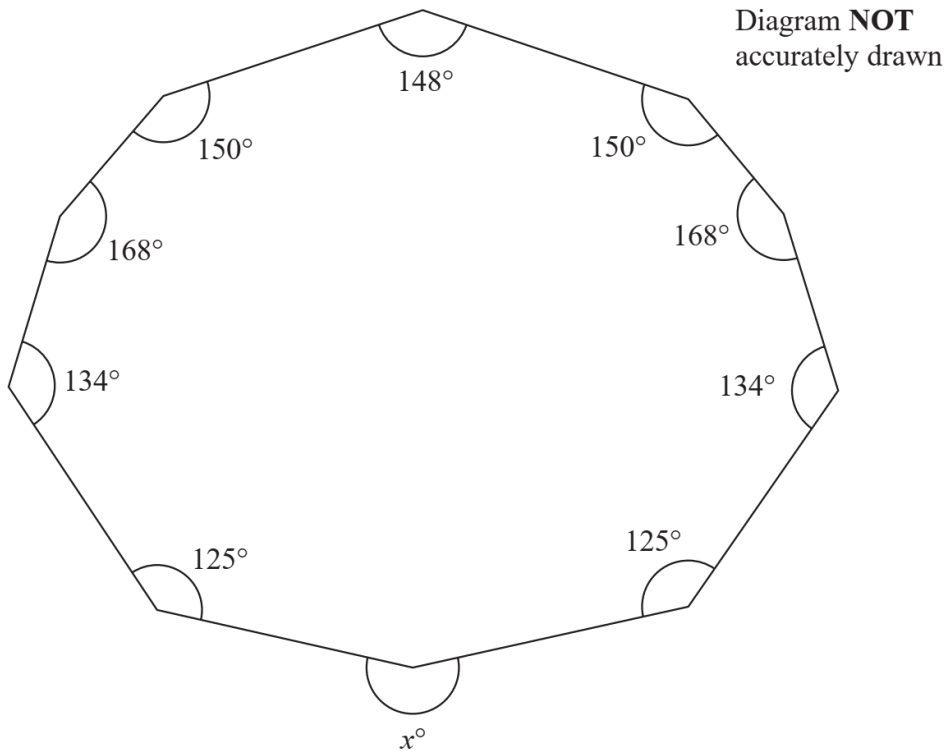
Diagram NOT
accurately drawn

Pentagon $ABCDE$ is drawn inside the regular octagon $ABFGHIJK$.
The pentagon has exactly one line of symmetry.

Work out the value of x .

12. May 2020 (1H) Q8

8 Here is a 10-sided polygon.



Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 8 is 4 marks)

13. January 2020 (2HR) Q12

The diagram shows two congruent isosceles triangles and parts of two congruent regular polygons, **X** and **Y**.

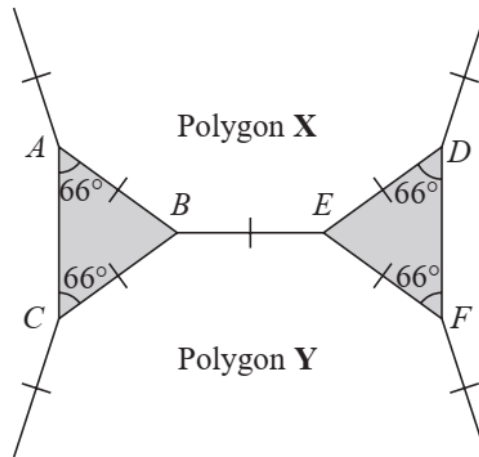


Diagram **NOT** accurately drawn

The two regular polygons each have n sides.

Work out the value of n .

15. June 2022 (2H) Q 4

The diagram shows parts of three regular polygons, **A**, **B** and **C**, meeting at a point.

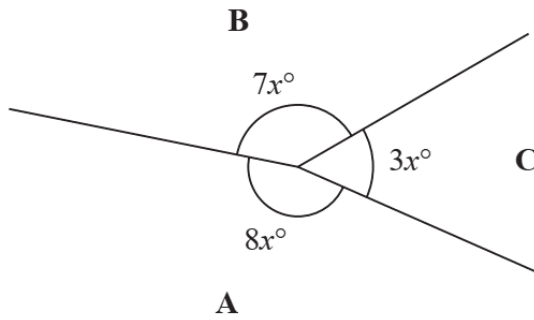


Diagram **NOT** accurately drawn

Polygon **B** has n sides.

Work out the value of n .

$n = \dots\dots\dots$

(Total for Question 4 is 4 marks)