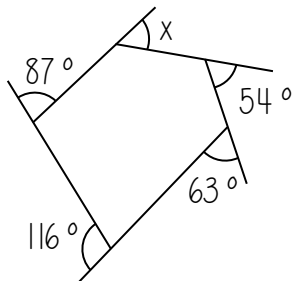


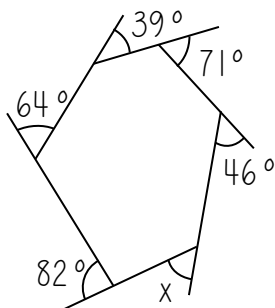
The diagrams are not drawn accurately

1. Find the value of x

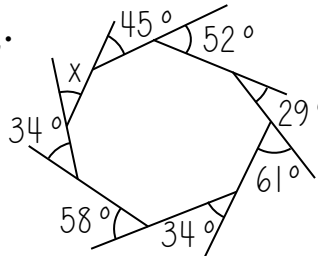
a.



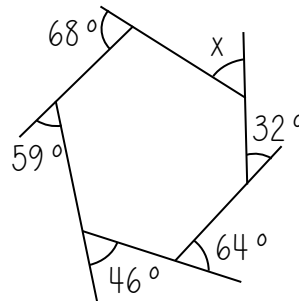
b.



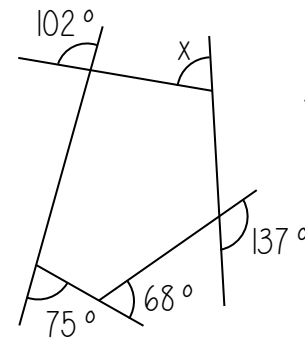
c.



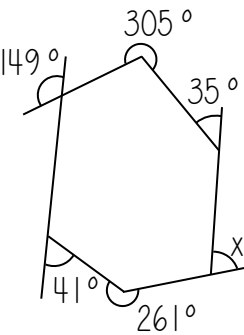
d.



e.

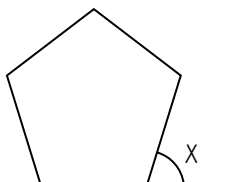


f.

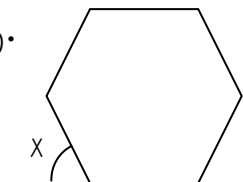


2. Calculate the size of one exterior angle in each regular polygon

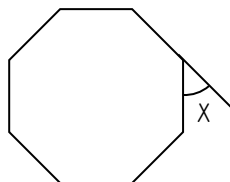
a.



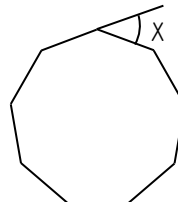
b.



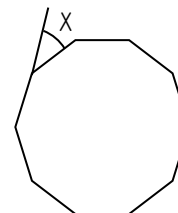
c.



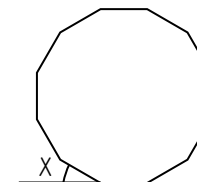
d.



e.



f.



g. 15 sides h. 18 sides i. 20 sides j. 24 sides k. 30 sides l. 60 sides m. 120 sides n. 180 sides

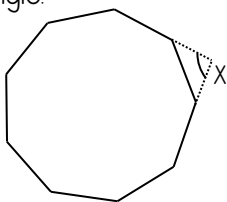
3. Calculate the number of sides in each regular polygon

a. Exterior angle = 15° a. Exterior angle = 60° c. Exterior angle = 5° d. Exterior angle = 12° e. Exterior angle = 4° f. Exterior angle = 45°
 g. Exterior angle = 7.5° h. Exterior angle = 11.25° i. Interior angle = 168° j. Interior angle = 156° k. Interior angle = 108° l. Interior angle = 175.5°

4.

The diagram shows a regular nonagon and an isosceles triangle.

Find the value of x .



5.

a. A regular polygon has interior angles 4 times larger than its exterior angles. Calculate the number of sides.
 b. A regular polygon has interior angles 6.5 times larger than its exterior angles. Calculate the number of sides.

6.

a. Regular polygon A has 12 sides and exterior angles of $6x$. Regular polygon B has exterior angles of $4x$. Find the number of sides polygon B has.
 b. Regular polygon C has 20 sides and exterior angles of $2x$. Regular polygon D has exterior angles of $5x$. Find the number of sides polygon D has.

