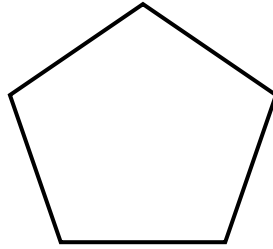


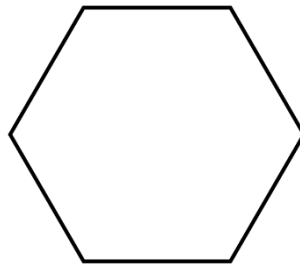
INTERIOR AND EXTERIOR ANGLES – PRACTICE QUESTIONS

1.
Pictured below is a regular pentagon.



Find the interior and exterior angles of a regular pentagon.

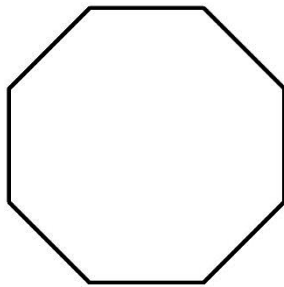
2.
Pictured below is a regular hexagon.



Find the interior and exterior angles of a regular hexagon.

3.

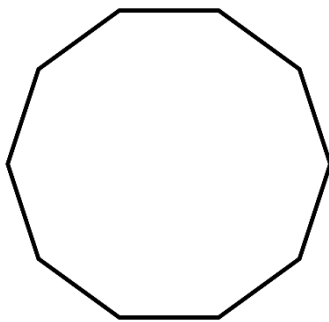
Pictured below is a regular octagon.



Find the interior and exterior angles of a regular octagon.

4.

Pictured below is a regular decagon.



Find the interior and exterior angles of a regular decagon.

5.

A dodecagon is a polygon with 12 sides.

Find the interior and exterior angles of a regular dodecagon.

6.

An octadecagon is a polygon with 18 sides.

Find the interior and exterior angles of a regular octadecagon.

7.

An icosagon is a polygon with 20 sides.

Find the sum of the interior angles in a regular icosagon.

8.

The size of each exterior angle in a regular polygon is 40° .

How many sides does the regular polygon have?

9.

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

How many sides does the regular polygon have?

10.

The size of each exterior angle in a regular polygon is 15° .

How many sides does the regular polygon have?

11.

The size of each interior angle in a regular polygon is 135° .

How many sides does the regular polygon have?

12.

The size of each interior angle in a regular polygon is 150° .

How many sides does the regular polygon have?

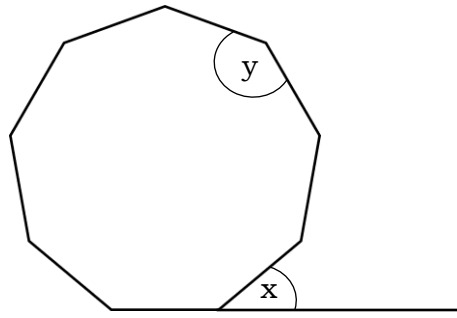
13.

The size of each interior angle in a regular polygon is 168° .

How many sides does the regular polygon have?

14.

Pictured below is a regular nonagon.

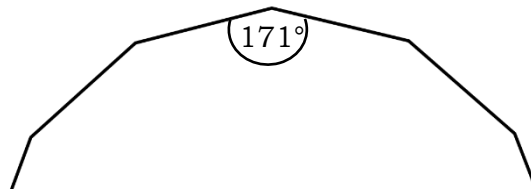


(a) Find the size of angle x.

(b) Find the size of angle y.

15.

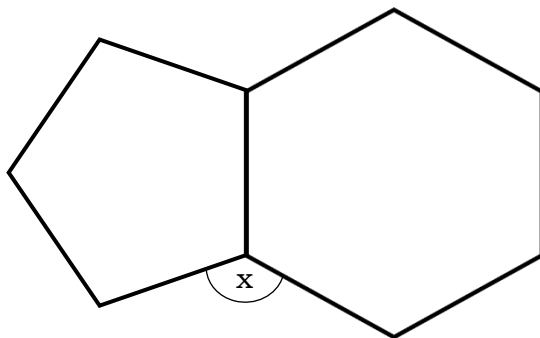
Pictured below is part of a regular polygon.



How many sides does the polygon have?

16.

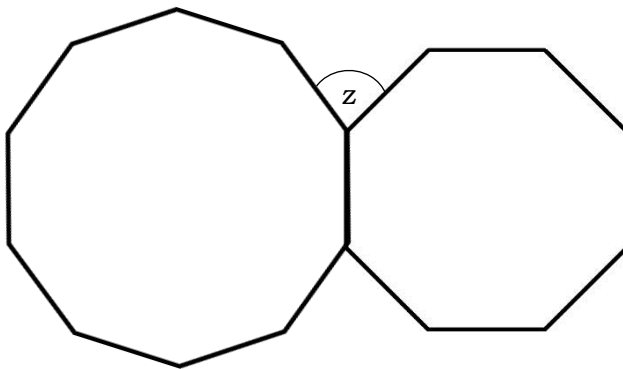
Pictured below is a regular pentagon joined to a regular hexagon.



Find x .

17.

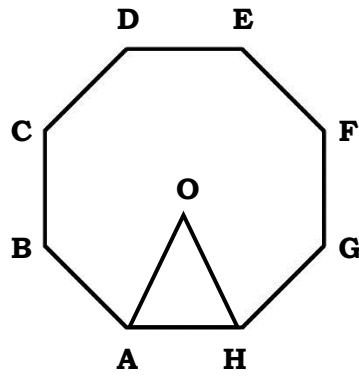
Pictured below is a regular decagon joined to a regular octagon.



Find z .

18.

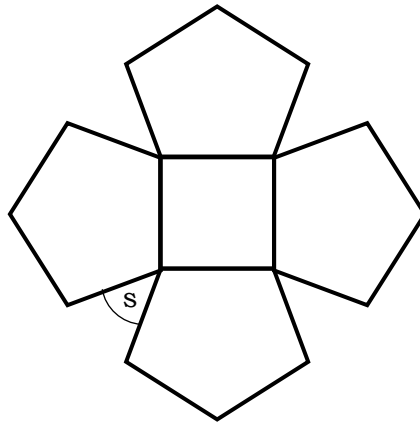
Pictured below is an equilateral triangle AOH inside a regular octagon $ABCDEFGH$.



Find the size of angle OHG .

19.

Pictured below is a square surrounded by regular pentagons.



Find s .