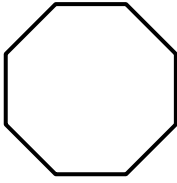


Name:

Angles of Polygons

Find the indicated measures of each regular polygon. You must show work to get credit.

1.



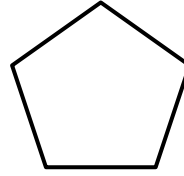
Single Interior Angle:

Single Exterior Angle:

Sum of Interior Angles:

Sum of Exterior Angles:

2.



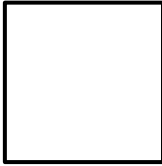
Single Interior Angle:

Single Exterior Angle:

Sum of Interior Angles:

Sum of Exterior Angles:

3.



Single Interior Angle:

Single Exterior Angle:

Sum of Interior Angles:

Sum of Exterior Angles:

4.

18-gon

Single Interior Angle:

Single Exterior Angle:

Sum of Interior Angles:

Sum of Exterior Angles:

5. What should the interior angle and exterior angle always equal?

6. Find the sum of the measures of the interior angles of an undecagon.

7. If the measure of an interior angle of a regular polygon is 156° , how many sides does the polygon have?

Name:

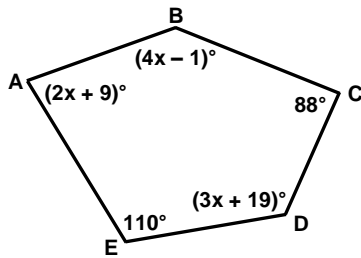
Angles of Polygons

8. One exterior angle of a regular polygon is 15° , how many sides does the polygon have?

9. The sum of the interior angles of a polygon is $4,320^\circ$. Find the number of sides of this polygon.

10. There is a store shaped like a regular polygon. If an interior angle of the store is 172.8° , how many sides does the store have?

11.

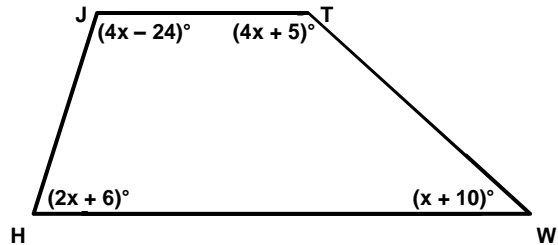


Find the sum of the interior angles of irregular pentagon ABCDE.

Find x .

Find the $m\angle BAE$.

12.



Find the sum of the interior angles of trapezoid JTWH.

Find x .

Find the $m\angle TJH$.