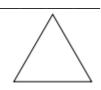
Polygons

Name each regular polygon. Find the measure of the indicated angles.

ame: __



Sum of Interior ∠'s: _____

One Interior∠'s: ____

Sum of Exterior∠'s:

One Exterior ∠'s: _____

2. Name:



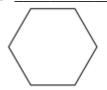
Sum of Interior ∠'s: _____

One Interior∠'s:

Sum of Exterior∠'s: _____

One Exterior ∠'s: _____

3. Name:



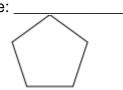
Sum of Interior ∠'s: ____

One Interior∠'s: _____

Sum of Exterior∠'s: _____

One Exterior ∠'s: _____

4. Name:



Sum of Interior ∠'s: _____

One Interior∠'s: ____

Sum of Exterior∠'s: _____

One Exterior ∠'s:

5. Dodecagon (12-sided)

Sum of Interior ∠'s: _____

One Interior∠'s: _____

Sum of Exterior∠'s: _____

One Exterior ∠'s: _____

6. N-Gon

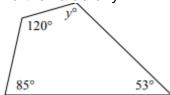
Sum of Interior ∠'s: _____

One Interior∠'s: _____

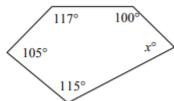
Sum of Exterior∠'s: _____

One Exterior ∠'s: _____

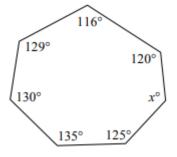
7.Find the value of y.



8. Find the value of x.

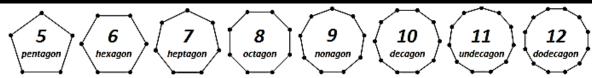


9. Find the value of x.



10. If the sum of the interior angles of a regular polygon is 900°, find the number of sides.	11. If the measure of one interior angle of a regular polygon is 144°, find the number of sides.	12. If the measure of one interior angle of a regular polygon is 160°, find the number of sides.
13. Find the value of n. $(n + 30)^{\circ}$ $(n - 12)^{\circ}$ 134° 161° $(n + 16)^{\circ}$ 126°	14. Find the values of x, y, and z.	15. Find the values of a and m.
16. If the measure of one exterior angle is 18°, find the number of sides.	17. Find the value of x and $m \angle P, m \angle T, m \angle S$. P $x + 25^{\circ}$ $x + 25^{\circ}$ $x + 25^{\circ}$	18. If the measure of one exterior angle is 45°, find the number of sides.

Polygons



- 1. Determine the sum of the interior angles of the following:
- A) Octogon



B) Dodecagon



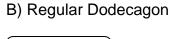
C) Icosagon



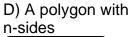
D) A polygon with

n-sides

- 2. What would be the measure of a single interior angle if each were a regular polygon?
- A) Regular Octogon



C) Regular Icosagon





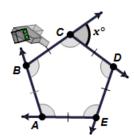




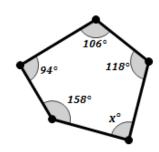


Find the value of x in each diagram below.

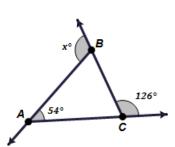
3.



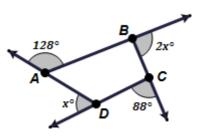
4.



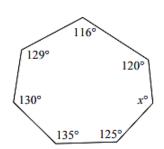
5.



6.



7.



8.

