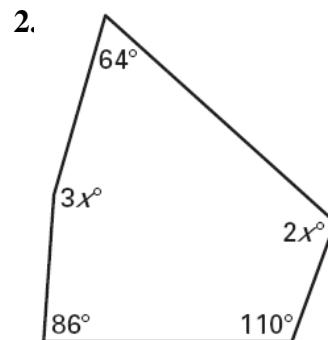
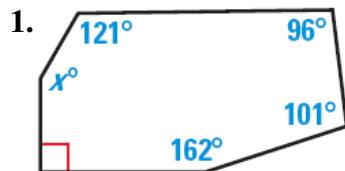


**Geometry**  
**Assignment 8.1**

Name: \_\_\_\_\_

Find the value of  $x$ .



Find the measure of each interior angle of the indicated regular polygon.

3. Triangle

4. Pentagon

5. Hexagon

Find the number of sides of the regular polygon described given the measure of each interior angle.  
Name the polygon.

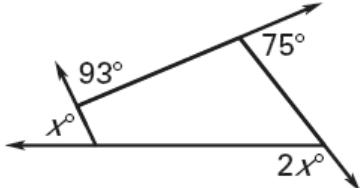
6.  $90^\circ$

7.  $135^\circ$

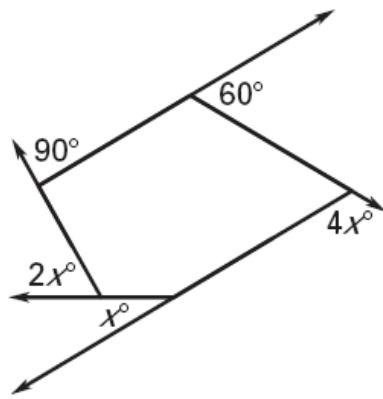
8.  $144^\circ$

Find the value of  $x$ .

9.



10.



Find the measure of each exterior angle of the indicated regular polygon.

11. Quadrilateral

12. Octagon

13. Decagon

Find the number of sides of the regular polygon described given the measure of each exterior angle. Name the polygon.

14.  $120^\circ$

15.  $72^\circ$

16.  $60^\circ$

**Answer Key:**

1)  $x = 150$     2)  $x = 56$     3)  $60^\circ$     4)  $108^\circ$     5)  $120^\circ$     6) 4 sides, Quadrilateral

7) 8 sides, Octagon    8) 10 sides, Decagon    9)  $x = 64$     10)  $x = 30$     11)  $90^\circ$     12)  $45^\circ$

13)  $36^\circ$     14) 3 sides, Triangle    15) 5 sides, Pentagon    16) 6 sides, Hexagon