NAME	DATE

7.1 – INTERIOR AND EXTERIOR ANGLES OF POLYGONS

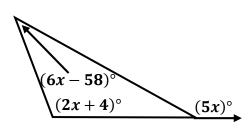
PER.____

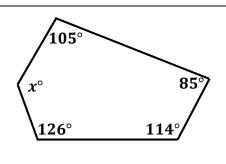
For each of the following regular polygons, find: a) the sum of the interior angles, b) the measure of each interior angle, c) the sum of the exterior angles, and d) the measure of each exterior angle.

1.	a)	A triangle
	b)	
	c)	
	d)	
2.	a)	A quadrilateral
	b)	
	c)	
	d)	
3.	a)	A pentagon
	b)	
	c)	
	d)	
4.	a)	A hexagon
	b)	
	c)	
	d)	
5.	a)	A heptagon
	b)	
	c)	
	d)	

6. a)	An octagon
b)	
c)	
d)	

Find the value of 'x' in each of the following.





For each of the following polygons, find: a) the sum of the measures of the interior angles and b) the sum of the measures of the exterior angles.

9.	a)_	 ,
	•	

A 30-sided polygon

the measure of each interior angle.		
11. a) b)	A 14-sided polygon	
<u> </u>		
	A 15-sided polygon	
b)	_	
Find the number of	sides for each of the following.	
13. n =	The measure of one interior angle of a regular polygon is 144 °. Find the number of sides of the polygon.	
14. <i>n</i> =	The measure of one interior angle of a regular polygon is 157 .5°. Find the number of sides of the polygon.	
15. <i>n</i> =	The measure of one exterior angle of a regular polygon is 24°. Find the number of sides of the polygon.	
16. <i>n</i> =	The measure of one exterior angle of a regular polygon is 18°. Find the number of sides of the polygon.	

For each of the following regular polygons, find: a) the measure of each exterior angle and b)

REVIEW

17. CD = _____

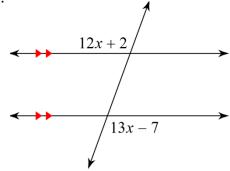
Find CD if C(0,3) and D(4,7).

18. (_____)

Find the midpoint of \overline{CD} if C(0,3) and D(4,7).

Solve for x.

19.



20.

