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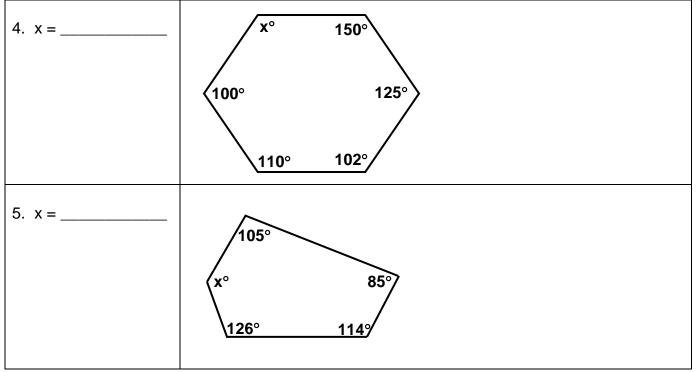
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PER. A# 10-6: INTERIOR AND EXTERIOR ANGLES OF POLYGONS

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

1.	a) b) c) d)	Heptagon
2.	a) b) c) d)	18-gon
3.	a) b) c) d)	32-gon

Find the missing angle in each of the following.



Find the number of sides for each of the following.

6. n =	The measure of one interior angle of a regular polygon is 108°.
7. n =	The measure of one interior angle of a regular polygon is 157.5°.
8. n =	The measure of one exterior angle of a regular polygon is 24°.
9. n =	The measure of one exterior angle of a regular polygon is 18°.
10. n =	The sum of the interior angles of a polygon is 2700°.
11. n =	The measure of one interior angle of a regular polygon is 135°.

12. n =	The measure of one exterior angle of a regular polygon is 10°.		
REVIEW			
13. CD =	Find CD if C(0, 3) and D(4, 7).		
14. (,)	Find the midpoint of \overline{CD} if C(0, 3) and D(4, 7).		
15. BC =	B lies between A and C. $AB = 2x - 7$, $BC = 4x + 2$, and $AC = 37$. Find BC.		