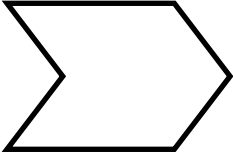
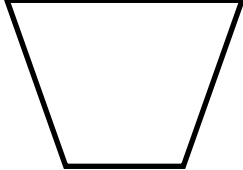
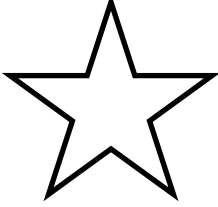
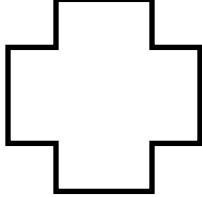


NAME _____ DATE _____ PER. _____

A# 10-5 INTERIOR & EXTERIOR ANGLES OF POLYGONS

Classify each polygon by its number of sides. Identify which polygons are convex, and which are concave?

<p>1. Classify: _____ convex OR concave?</p>	
<p>2. Classify: _____ convex OR concave?</p>	
<p>3. Classify: _____ convex OR concave?</p>	
<p>4. Classify: _____ convex OR concave?</p>	

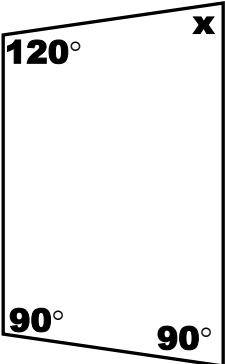
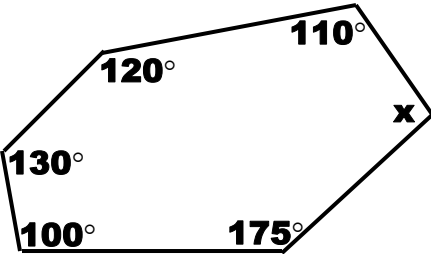
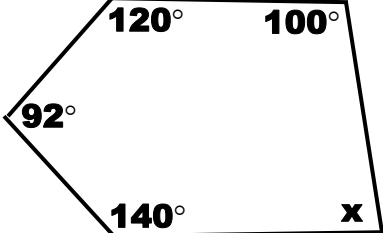
For each of the following polygons, find: a) the sum of the interior angles and b) the sum of the exterior angles.

<p>5. a) _____ b) _____</p>	<p>A 30-sided polygon</p>
<p>6. a) _____ b) _____</p>	<p>A 10-sided polygon</p>
<p>7. a) _____ b) _____</p>	<p>A dodecagon</p>

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

<p>8. a) _____ b) _____</p>	<p>A 4-sided polygon</p>
<p>9. a) _____ b) _____</p>	<p>A 15-sided polygon</p>
<p>10. a) _____ b) _____</p>	<p>An undecagon</p>

Find the missing angle.

<p>11. $x =$ _____</p>	
<p>12. $x =$ _____</p>	
<p>13. $x =$ _____</p>	

REVIEW PROBLEMS

14. $BC =$ _____	Find BC if $B(-2, 2)$ and $C(6, -4)$.
15. $M(\text{_____, } \text{_____})$	Find the midpoint of \overline{BC} described in #14.
16. $m\angle 2 =$ _____	$\angle 1$ and $\angle 2$ are complementary angles. If $m\angle 1 = (7x - 12)^\circ$ and $m\angle 2 = (4x + 25)^\circ$, find the $m\angle 2$.
17. $m\angle CAD =$ _____	\overrightarrow{AB} bisects $\angle CAD$. If $m\angle CAB = (3x + 11)^\circ$ and $m\angle BAD = (x + 23)^\circ$, then find the $m\angle CAD$.