

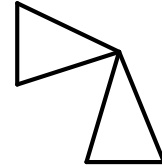
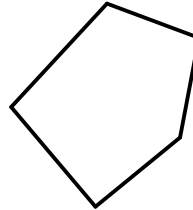
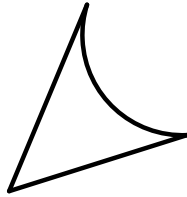
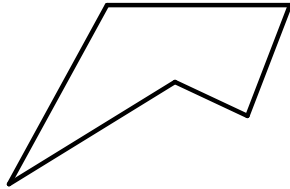
8.1 Classifying Polygons Homework

Name _____

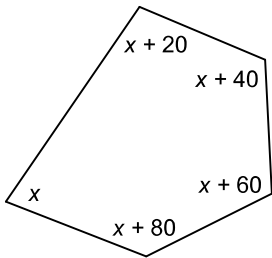
Date _____ Per _____

Solve each problem. Show your work.

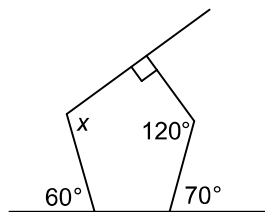
1. Classify each figure as concave, convex, or neither.



2. Find x and the measure of each angle.



3. Find x .

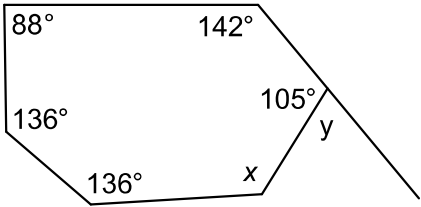


4. How many sides does a regular polygon have if each interior angle has a measure of 172° ?

5. Find the measure of an interior angle in a regular heptagon.

6. Find the measure of an exterior angle in a regular hexagon.

7. How many sides does a regular polygon have if each exterior angle measures 72° ?

<p>8. How many sides does a regular polygon have if each interior angle has a measure of 170°?</p>	<p>9. Find the sum of the measures of the interior angles of a 15-gon.</p>
<p>10. How many sides does a regular polygon have if each exterior angle measures 15°?</p>	<p>11. Find the measure of an interior angle in a regular 16-gon.</p>
<p>12. How many sides does a regular polygon have if each interior angle has a measure of 160°?</p>	<p>13. Find the measure of an exterior angle in a regular nonagon.</p>
<p>14. Seven exterior angles of an octagon measure 70°, 42°, 30°, 22°, 50°, 68°, and 55°. What is the measure of the eighth exterior angle?</p>	<p>15. Find x and y.</p> 
<p>16. Find the measure of an interior angle in a regular dodecagon.</p>	<p>17. Find the measure of the sum of the exterior angles in a decagon.</p>