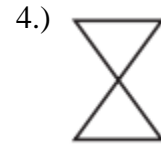
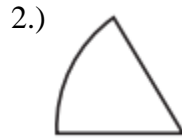


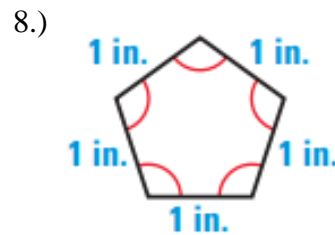
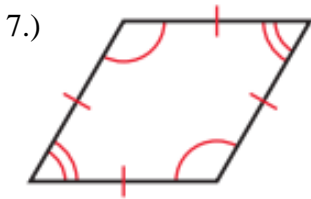
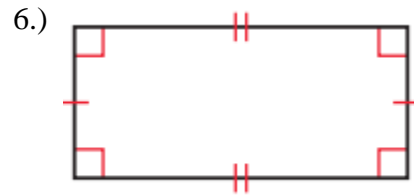
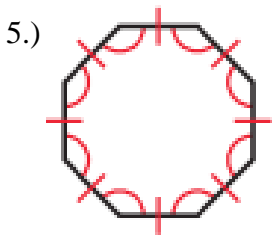
Lesson 1.6 Worksheet

Name: _____

In exercises 1-4, tell whether the figure is a polygon. If it is not, *explain* why. If it is a polygon, tell whether it is *convex* or *concave*.



In exercises 5-9, classify the polygon by the number of sides. Tell whether the polygon is equilateral, equiangular, or regular. *Explain* your reasoning.



9.) **Algebra:** The expressions $(9x + 5)$ and $(11x - 25)$ represent the measures of two angles of a regular nonagon. Find the measure of an angle of the regular nonagon.

Tell whether the statement is *always*, *sometimes*, or *never* true. *Explain* your answer.

10.) A triangle is convex

11.) A circle is a polygon.

12.) A regular polygon is equiangular.

13.) A decagon is regular.

14.) A concave polygon is equiangular.

Draw a properly labeled figure to fit the description.

15.) A triangle that is not regular.

16.) A concave quadrilateral.

17.) A pentagon that is equilateral but not equiangular.

18.) An octagon that is equiangular but not equilateral.