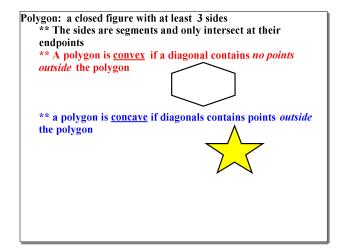
8.1 Classifying Polygons

Goal: to be able to describe polygons

WARM-UP EXERCISES

- **1.** What is the sum of the measures of the interior angles of a triangle?
- **2.** In which kind of triangle are all three sides congruent?
- **3.** In which kind of triangle are all three angles congruent?

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Identify Convex and Concave Polygons

Decide whether the polygon is convex or concave.





Decide whether the polygon is convex or concave.







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A polygon is equilateral if all of its sides are congruent.



A polygon is equiangular if all of its angles are congruent.



A polygon is regular if it is both equilateral and equiangular.



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Identify Regular Polygons

Decide whether the polygon is regular. Explain your answer.





Decide whether the polygon is regular. Explain your answer.







Using Algebra

The polygon is regular. Find the value of x.



The polygons are regular. Find the value of \boldsymbol{x} .







Jan 18-9:04 AM Jan 18-9:06 AM