

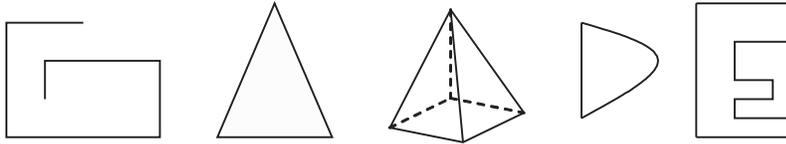
Independent Practice

9.1

NAME _____

Module 9 Characteristics of Geometric Shapes
Lesson 1 Polygons

1. Draw an X through the figures that are not polygons.



Tell if each polygon is concave or convex.

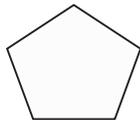
2.



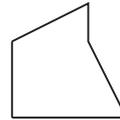
3.



4.

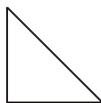


5.



Write *regular* or *irregular*. Then, name the polygon according to its number of sides.

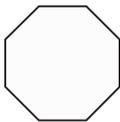
6.



7.



8.



9.



Sketch the polygon described.

10. Convex irregular heptagon

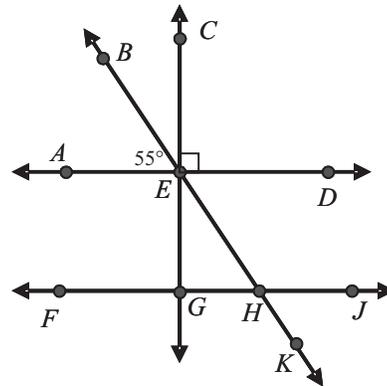
11. Concave quadrilateral

Journal

1. What must be true about a figure if it is a polygon? What must be true if it is a simple polygon?
2. Explain the difference between a convex and concave polygon. Draw an example of each.
3. Francesca drew a quadrilateral with four congruent angles. Without seeing her figure, explain if you can determine whether or not her quadrilateral is a regular polygon.

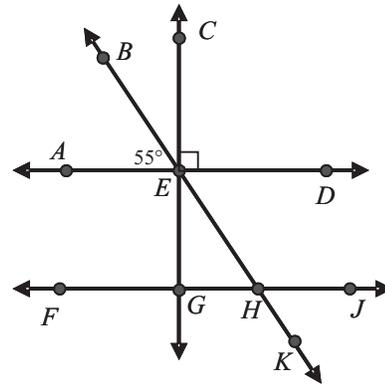
Cumulative Review

1. Name the rays that form $\angle BEC$.
2. Name the points collinear with points H and K .
3. Name the points collinear with points H and J .
4. Which angle is vertical to $\angle AEB$?



NAME _____

Module 9 **Characteristics of Geometric Shapes**
Lesson 1 **Polygons**



$$\overline{AD} \parallel \overline{FG}$$

5. Find $m\angle EGH$.
6. Find $m\angle GHE$.
7. Find $m\angle EHJ$.
8. Name three angles congruent to $\angle EHJ$.
9. Name a pair of supplementary congruent angles.
10. Classify $\triangle EGH$ by its angles and by its sides.

Additional Work Area