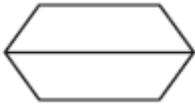


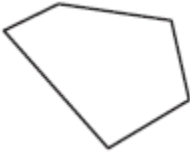
## Classifying Polygons Assignment

Tell whether the figure is a polygon and whether it is convex or concave

a.



b.



c.



How many sides do each of the following polygons have?

4. Hexagon
5. Dodecagon
6. Pentagon

Answer the following questions.

7. If a regular Hexagon has a side length of  $x+3$  what is the perimeter?
8. If an isosceles triangle has a base of  $y+1$  and sides of  $2x-3$  and  $4x-7$  find  $x$ .
9. Name something that is shaped like a pentagon then draw a picture of it.
  
10. What is the angle measure of each interior angle of an equiangular triangle?

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Classifying Polygons Assignment

For Exercises 11–14, draw the regular polygons labeling sides and angles.

11. Octagon

12. Dodecagon

13. Parallelogram

14. Hexagon

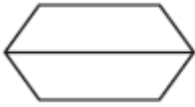
||

## Classifying Polygons Assignment

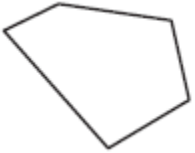
### ANSWERS

Tell whether the figure is a polygon and whether it is convex or concave

d. **POLYGON, CONVEX**



e. **POLYGON, CONVEX**



f. **POLYGON, CONCAVE**



How many sides do each of the following polygons have?

4. Hexagon **6**

5. Dodecagon **12**

6. Pentagon **5**

Answer the following questions.

7. If a regular Hexagon has a side length of  $x+3$  what is the perimeter?  **$x = 3$**

8. If an isosceles triangle has a base of  $y+1$  and sides of  $2x-3$  and  $4x-7$  find  $x$ .  **$x = 2$**

9. Name something that is shaped like a pentagon then draw a picture of it.

### THE PENTAGON

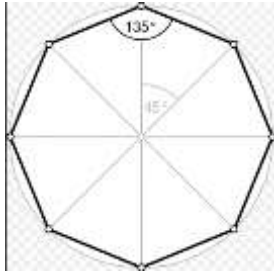
10. What is the angle measure of each interior angle of an equiangular triangle?

**$60^\circ$**

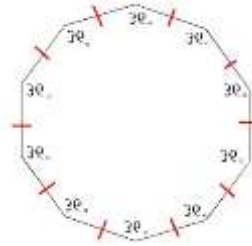
# Classifying Polygons Assignment

For Exercises 11–14, draw the regular polygons labeling sides and angles.

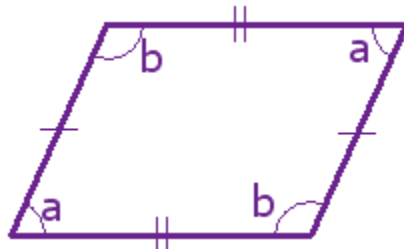
11. Octagon



12. Dodecagon



13. Parallelogram



14. Hexagon

