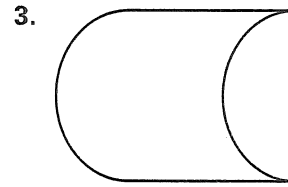
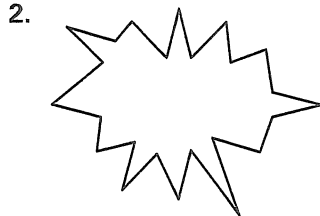
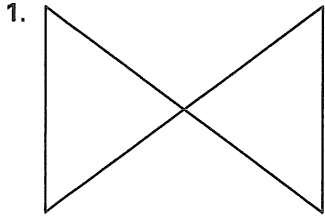


**Practice C**

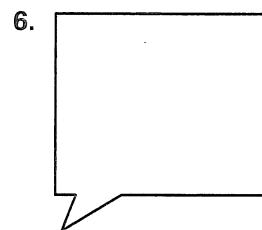
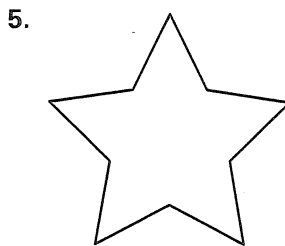
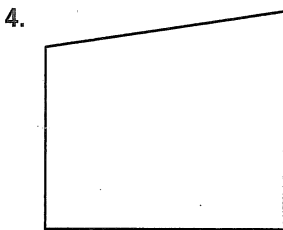
For use with pages 322–328

Lesson 6.1

Decide whether the figure is a polygon. If not, explain why.



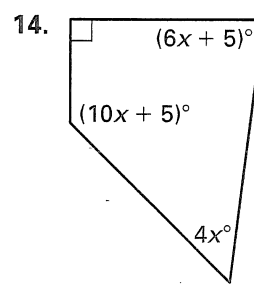
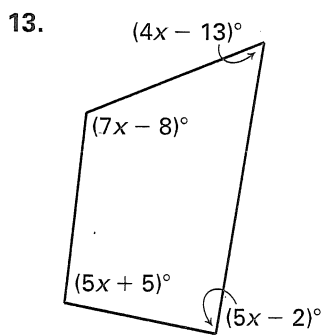
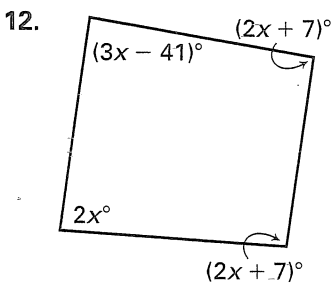
Use the number of sides to tell what kind of polygon the shape is. Then state whether the polygon is *convex* or *concave*.



Draw a figure that fits the description.

- 7. A convex hexagon
- 8. A concave nonagon
- 9. An equilateral hexagon that is not equiangular
- 10. An equiangular hexagon that is not equilateral
- 11. An equiangular quadrilateral that is not regular

Use the information in the diagram to solve for  $x$ .



Decide if the following statements are *true* or *false*.

- 15. Every triangle is convex.
- 16.  $\overline{BE}$  is a diagonal of polygon  $BACDE$ .
- 17. If quadrilateral  $WXYZ$  is regular, then it has four right angles.
- 18. The polygon shown in Exercise 5 is a regular polygon.
- 19. It is not possible to draw a concave quadrilateral.
- 20. All of the diagonals of a regular polygon are congruent.