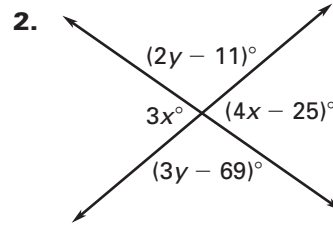
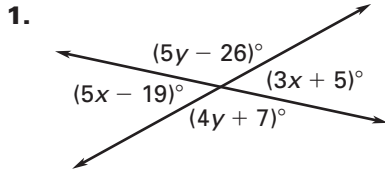


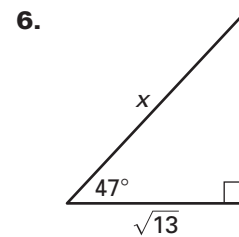
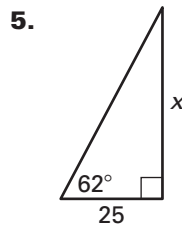
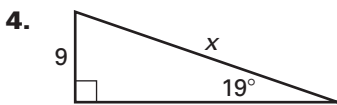
CHAPTER 12 **Cumulative Review**
For use after Chapter 12

Find the values of x and y .



~~3. Graph the triangle with vertices $X(-2, 5)$, $Y(1, 3)$, and $Z(3, -4)$. Then graph a triangle congruent to $\triangle XYZ$.~~

Find the value of x . Round your answers to the nearest tenth.



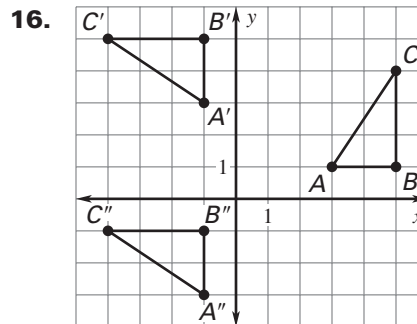
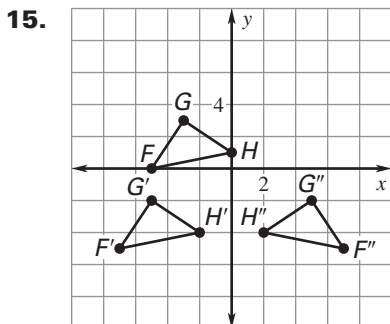
Find the sum of the measures of the interior angles of the indicated convex polygon.

7. 13-gon 8. octagon 9. 22-gon 10. pentagon

~~Points $P, Q, R,$ and S are the vertices of a quadrilateral. Give the most specific name for $PQRS$. Justify your answer.~~

- ~~11. $P(0, -1), Q(2, -1), R(5, -6), S(0, -3)$ 12. $P(5, 1), Q(-1, 5), R(-1, 3), S(-3, 1)$~~
~~13. $P(-2, 4), Q(-6, 6), R(-9, 3), S(-5, 1)$ 14. $P(1, 2), Q(2, 4), R(1, 6), S(0, 4)$~~

Describe the composition of transformations.



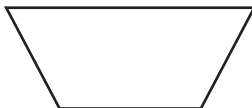
CHAPTER 12 **Cumulative Review** *continued*
 For use after Chapter 12

How many lines of symmetry does the figure have?

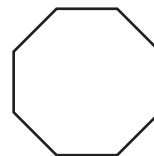
17. A rectangle



18. An isosceles trapezoid



19. A regular octagon



Use the given information to write the standard equation of the circle.

20. The center is $(-3, 2)$ and a point on the circle is $(5, 2)$.

21. The center is $(6, -1)$ and a point on the circle is $(-1, 6)$.

~~The ratio of the areas of two similar figures is given. Write the ratio of the lengths of the corresponding sides.~~

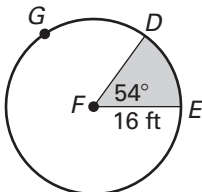
~~22. Ratio of areas = $25:9$~~

~~23. Ratio of areas = $169:225$~~

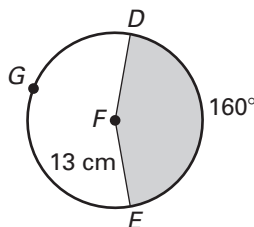
~~24. Ratio of areas = $3:4$~~

Find the areas of the sectors formed by $\angle DFE$. Round your answers to the nearest tenth.

25.

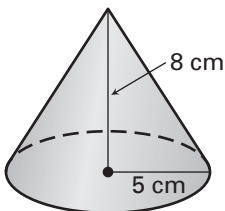


26.

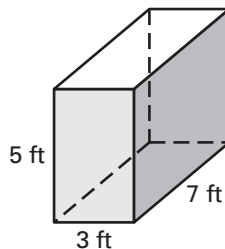


Find the surface area and the volume for each right solid. Round your answers to two decimal places, if necessary.

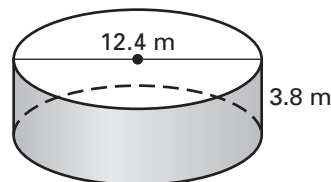
27.



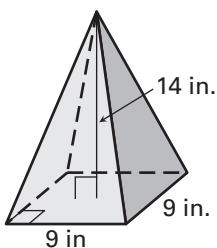
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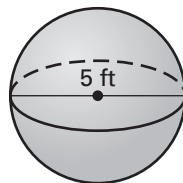
29.



30.



31.



32.

