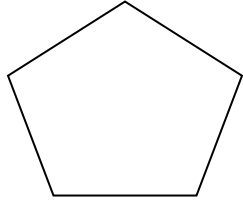


When necessary, round to two decimal places.

1. Draw in and label a central angle, a radius, and an apothem of the regular pentagon pictured below.



2. Find the measure of each central angle in a dodecagon.
3. If the apothem of an octagon is 6.4, what is the length of the radius?
4. The radius of a hexagon is 20 cm. What is the length of the apothem?
5. If each side length in a regular decagon is 8 in., and the apothem is 12.3 in., what is the length of the radius?
6. In a regular nonagon the radius is 18mm. (A) What is the length of each side of the nonagon?

(B) What is the apothem of the nonagon?

REVIEW

7. Find the sum of the measures of the interior angles of a polygon that has:

a. 6 sides _____

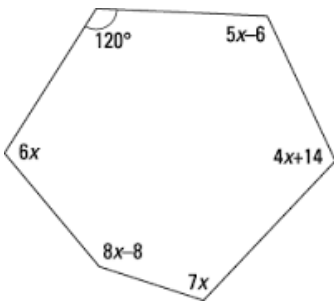
b. 30 sides _____

8. A convex pentagon has interior angles that measure 60° , 80° , 120° , and 140° . What is the measure of the fifth interior angle?

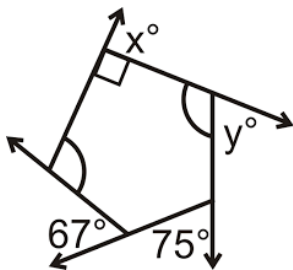
9. The measure of each interior angle of a regular polygon is 140° . How many sides does the polygon have?

10. What is the measure of each exterior angle of a dodecagon?

11. Solve for x .



12. Solve for x and y .



A quiz on these topics will be tomorrow, Tuesday April 11.