

Circle (C)

A circle with **radius** R and center C is the set of all points in the plane whose distance from C is R . The area of a circle of radius R is πR^2 , and the perimeter of such a circle is $2\pi R$.

Exercises

1. What is the area of a circle whose radius is 2 feet?
2. What is the perimeter of a circle whose radius is 2 meters?
3. What is the radius of a circle whose area is 12 square feet?
4. What is the radius of a circle whose perimeter is 9 meters?
5. Suppose that radius of a circle is doubled? What happens to its perimeter?
What happens to its area?
6. By what proportion should I increase the radius of a circle to triple its area?