

CMSC 131 Fall 2004 Quiz 4 Solution

One possible solution

```
public class Circle {
    private double radius;

    public Circle() {
        radius = 1.0;
    }

    public Circle(double radiusIn) {
        radius = radiusIn;
    }

    public double getRadius() {
        return radius;
    }

    public void increaseRadius(double delta) {
        radius += delta;
    }

    public String toString() {
        return ("Radius: " + radius + " inches");
    }

    public boolean equals(Circle circleIn) {
        return radius == circleIn.radius;
    }

    public Circle doubleRadius() {
        return new Circle(2*radius);
    }

    public static double area(Circle circleIn) {
        double r = circleIn.radius;
        return Math.PI * r * r;
    }
}
```