```java
package za.ac.wsu.s212041711;


public class circle{
    private int x;
    private int y;
    private double radius;


    public double area,circumference,diameter;


    public void setradius(int num1,int num2){
        radius = Math.sqrt(num1*num1 + num2*num2);
    }
    public double getradius(){
        return radius;
    }
    public void setarea(double number){
        area = Math.PI*(radius*radius);
    }
    public void setcircumference(double number){
        circumference = Math.PI*2*radius;
    }
    public void setdiameter(double number){
        diameter = 2*radius;
    }
    public double getarea(){
        return area;
    }
    public double getcircumference(){
        return circumference;
    }
    public double getdiameter(){
```

```java
        return diameter;

    }


    public static void main(String[] args){


        circle c1 = new circle();

        c1.setarea(2.23);

        c1.setcircumference(2.23);

        c1.setdiameter(2.23);

        circle c2 = new circle();

        c2.setarea(5.00);

        c2.setcircumference(5.00);

        c2.setdiameter(5.00);

        circle c3 = new circle();

        c3.setarea(7.81);

        c3.setcircumference(7.81);

        c3.setdiameter(7.81);


        System.out.println("area = " + c1.getarea() + "\ncircumference = " + c1.getcircumference() +
"\ndiameter = " + c1.getdiameter());

        System.out.println("area = " + c2.getarea() + "\ncircumference = " + c2.getcircumference() +
"\ndiameter = " + c2.getdiameter());

        System.out.println("area = " + c3.getarea() + "\ncircumference = " + c3.getcircumference() +
"\ndiameter = " + c3.getdiameter());

    }
}
```