Here’s my Replit Link:

<https://replit.com/@NicholeBerry1/Berry-99-programing-excercise#script.js>

Here are the regular polygon and the java program:

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class RegularPolygon{

private int n;

private double side;

private double x;

private double y;

RegularPolygon(){

n = 3;

side = 1;

x = 0;

y = 0;

}

RegularPolygon(int number, double length){

n = number;

side = length;

x = 0;

y = 0;

}

RegularPolygon(int number, double length,

double xP, double yP){

n = number;

side = length;

x = xP;

y = yP;

}

void setN(int number){

n = number;

}

int getN(){

return n;

}

void setSide(double length){

side = length;

}

double getSide(){

return side;

}

void setX(double xP){

x = xP;

}

double getX(){

return x;

}

void setY(double yP){

y = yP;

}

double getY(){

return y;

}

double getPerimeter(){

return n\*side;

}

double getArea(){

return (n \* side \* side)

/ (4 \* Math.tan(Math.PI / n));

}

}

**9.9-**

**----------**

import

java

.lang.Math;

public class testPolygon {

public static void main(

String

[] args){

RegularPolygon first = new RegularPolygon();

RegularPolygon second = new RegularPolygon(6,4);

RegularPolygon third

= new RegularPolygon(10,4,5.6,7.8);

System.out.println("Perimeter of the first

polygon: " + first.getPerimeter());

System.out.println("Area of the first polygon: "

+ first.getArea());

System.out.println("Perimeter of the second

polygon: " + second.getPerimeter());

System.out.println("Area of the first polygon: "

+ second.getArea());

System.out.println("Perimeter of the third

polygon: " + third.getPerimeter());

System.out.println("Area of the first polygon: "

+ third.getArea());

}

}