

Question 3: (2 points): Write the following expressions in C language

Mathematical Expression	C Expression
$\frac{x^{\sqrt{y}} - z^2}{x + y}$	
$\sqrt{\sqrt{x} + y}$	
$1 + \frac{x^{ y +x}}{y} - \sqrt{z}$	

Question 4: (1 points)

What will be the values of **x**, **y**, and **z** after executing the following statements.

```
int x=7.999;
```

```
double y=x;
```

```
double z=9/2;
```

x

y

z

Question 5 (3 points):

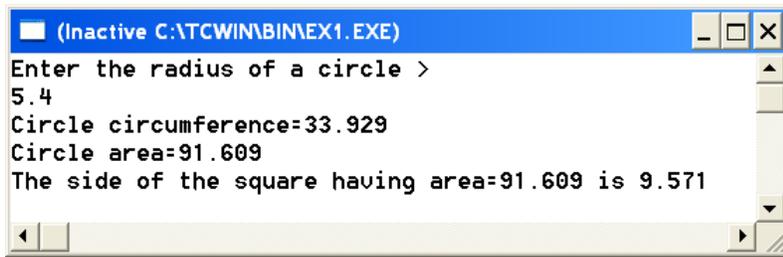
Write a program that prompts the user to enter the radius of a circle. The program displays the area and circumference of the circle. It also finds and displays the side of a square having the same area as the circle whose radius is entered by the user.

A sample run of your program is shown below.

The way to display the output must match the sample run.

Note: Define π as a constant with a value of 3.14159

All output values are displayed with 3 digits after decimal point.



```
(Inactive C:\TCWINBIN\EX1.EXE)
Enter the radius of a circle >
5.4
Circle circumference=33.929
Circle area=91.609
The side of the square having area=91.609 is 9.571
```