

FORMULAS

The **area** of the top of the cylinder = $M_PI * radius * radius$

The **volume** of the cylinder = $M_PI * radius * radius * height$

VIEWING OUTPUT

When you run the program, the whole thing is going to lab5.out.

Open that file to see your output.

DEFINED OUTPUT APPEARANCE (using lab5sample.out):

Ruthann Biel. Lab5.

Cylinder 1

The radius is: 5.000

The height is: 2.000

The top area is: 78.540

The volume is: 157.080

Cylinder 2

The radius is: 40.000

The height is: 15.000

The top area is: 5026.548

The volume is: 75398.224

DATA FILES:

There are two data files:

- lab5sample.dat – Use it to verify the correctness of your program. It has two sets of data.
- lab5.dat – It has 4 sets of data.

PREPARE YOUR FILE FOR GRADING:

Make sure your program has been corrected to use **lab5.dat** and has been re-compiled.

When all is well and correct,

Type: **script StudentName_lab5.txt** [Script will keep a log of your session.]

Type: **cat lab5.c** to display the code in your session.

Type: **gcc lab5.c** to compile the code

Type: **a.out** to run the program

Type: **cat lab5.out** to show contents of the output file

Type: **exit** to leave the script session

Turn in your completed session:

Go to SacCT and turn in your script session (StudentName_lab5.txt).