

GSET: Programming - Summer 2022

Lab 1: Variables and Assignment

Names: _____

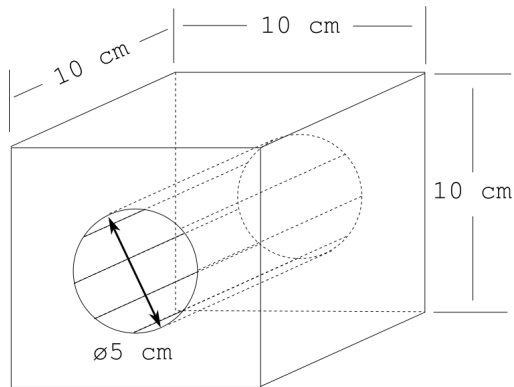
Overview :

You will learn to use variables to store decimal numbers and practice a few basic calculations with the MATLAB command syntax. Turn in this sheet with the answers and a record of the commands you used to solve each problem.

Assignment :

1. ($\frac{40}{100}$ pts.) Assume the **shape 1** and **shape 2** below are made of steel with a density of $8050 \frac{kg}{m^3}$. Use the command window to calculate the *mass* of **shape 1** shown below.

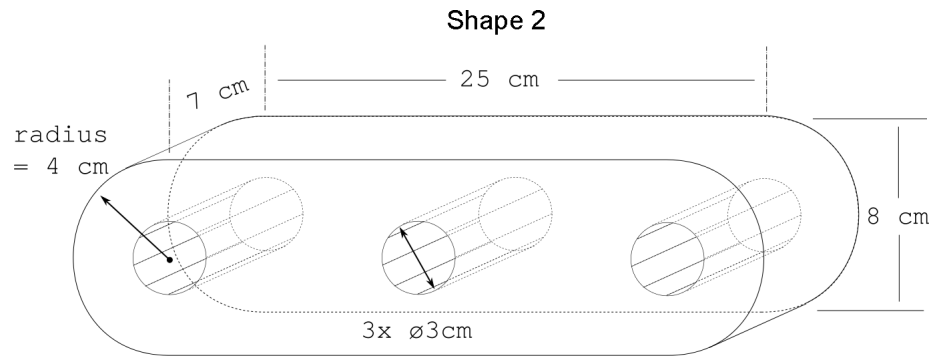
Shape 1



volume: _____

mass: _____

2. ($\frac{40}{100}$ pts.) Use the command window to calculate the *mass* of **shape 2** shown below.

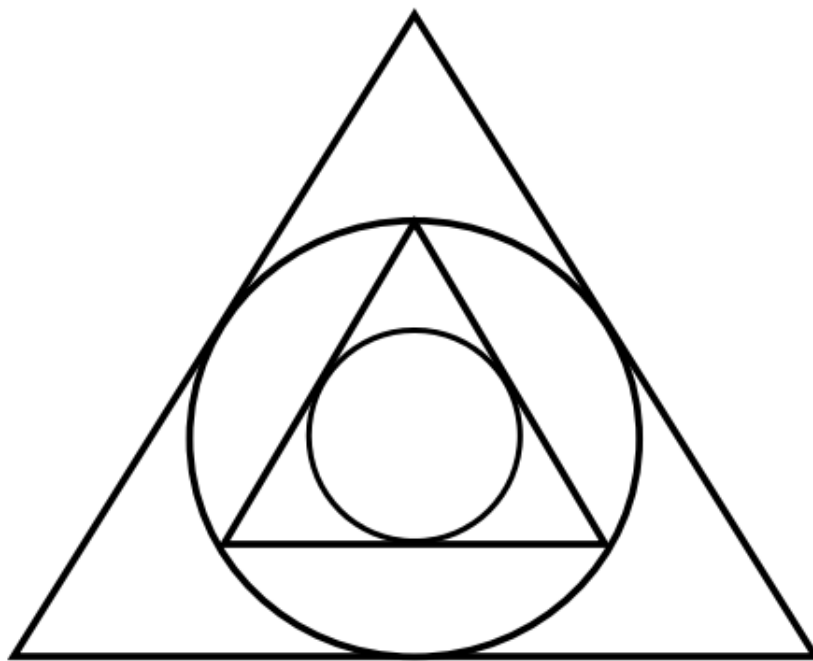


volume: _____

mass: _____

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Geometry Puzzle :



What is the ratio of the volume of the small triangle to volume of the large triangle?

What is the ratio of the volume of the small circle to volume of the large circle?

How can you prove it?