

Name: _____ Date: _____ Course: _____ Professor: _____

M6a Prelab: Measurements



Read the lab instructions, the appropriate sections from your textbook and watch the videos before answering the questions.

1. What is the volume of a cube with side $a=27.5$ mm
 - a) in mm^3 ?
 - b) in cm^3 ?
 - c) in m^3 ?
2. What is the volume of a cylinder of radius r and height h ?
3. Complete the assignments in Parts V-section A and V-section B of the lab description.
 - For the Graphical (Head-to-tail) Method of Vector Addition, your diagrams must be done in graphing paper. Vectors need to be correct, neat, and of appropriate scale. Angles must be shown and labeled.
 - For the Component Method of Vector Addition, your calculations should be neatly written in pages 13 and 15 of the lab handout, and summarized in tables V and VI respectively.

If you need help to complete this assignment, see your instructors during their office hours.