
Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

**Marker's
Initials**

Prelab 1

A cylindrical object of volume V is immersed completely in a liquid where ρ is the density of the liquid. Write the expression for the buoyant force on the object, using these terms.

Prelab 2

A cylindrical object of mass m , bottom area A , and height H is attached to a string and at rest when immersed at a distance h in a liquid with density ρ . Let T be the tension in the string. Draw the free body diagram for the cylinder when it is partially submerged. Label all forces clearly and write expressions for each force.

STAPLE YOUR PRE-LAB TO THIS PAGE