Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Bin#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lab 1 Hydraulic Theory**

A. REVIEW PROBLEMS

 

#1 A = 4 sq. in.

 F = 100 lbs.

 P = \_\_\_\_\_\_ PSI

#2 A = 10 sq. in.

 F = \_\_\_\_\_\_ lbs.

 P = 100 PSI

#3 A = \_\_\_\_\_\_ sq. in.

 F = 200 lbs.

 P = 400 PSI

#4 A = 2 sq. in.

 F = \_\_\_\_\_\_ lbs.

 P = 1000 PSI

#5 A = \_\_\_\_\_\_ sq. in.

 F = 750 lbs.

 P = 1000 PSI

#6 V = 10 cu. in.

 A = 5 sq. in.

 L= \_\_\_\_\_\_ in.

#7 V = 20 cu. in.

 A = \_\_\_\_\_\_\_sq. in.

 L = 10 in.

#8 V = \_\_\_\_\_\_\_cu. in.

 A = 10sq. in.

 L = 2 in.

#9 V = 10 cu. in.

 A = \_\_\_\_\_\_\_sq. in.

 L = 10 in.

#10 V = 5 cu. in.

 A = \_\_\_\_\_\_\_sq. in.

 L = 1 in.

B. Force, Pressure, Area, and Length

  

C. System Theory

