

LAWS OF FLOW (A)

Name:.....

Group:.....

Date:.....

1. Goal of the experiment:

2. Initially set values of the:

a) rate of flow $Q =$

b) viscosity of fluid $\eta =$

c) density of fluid $\rho =$

3. The lateral and the total pressure in the tube:

	Tube radius, r	Lateral pressure, p_{L1}	Total pressure, p_1	Lateral pressure, p_{L2}	Difference in lateral pressures $\Delta p = p_{L1} - p_{L2}$
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

4. Calculations of the vascular resistance, the average speed of flow and the Reynolds number:

lp.	vascular resistance, R_v	dynamic pressure, p_d	average speed of flow, \bar{v}	Reynolds number, Re
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

LAWS OF FLOW (B)

Name:

Group:

Date:

1. Goal of the experiment:

2. Set values of the:

a) radius of the tube $r =$

a) viscosity of fluid $\eta =$

b) density of fluid $\rho =$

3. The lateral and total pressure in the tube:

lp.	Rate of flow, Q	Lateral pressure, p_{L1}	Total pressure p	Lateral pressure, p_{L2}	Difference in pressures $\Delta p = p_{L1} - p_{S2}$
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

4. Calculations of the vascular resistance, the average speed of flow and the Reynolds number:

lp.	Vascular Resistance, R_v	Dynamic pressure, p_d	Average speed of flow, \bar{v}	Reynolds number, Re
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Make a graph of the dependencies $v = f(Q)$

