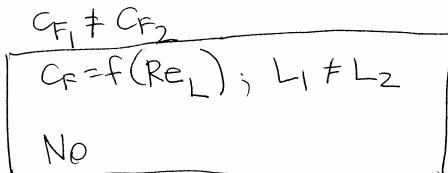
1)ausson Name (2 points):

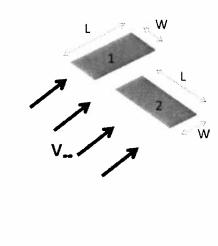
March 30, 2016 ChBE 3200 Quiz 6

Q1 (3 points): Two identical rectangular flat plates are placed in an air stream as shown below. An incompressible Newtonian fluid flows parallel to the plate surfaces with bulk (free-stream) velocity of v_{∞} as shown in the diagram.

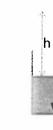
Is the total drag force of the fluid on the plate the same for both plates? Why or why not?

$$A_1 = A_2$$
 $P_1 = P_2$ $V_{01} = V_{02}$





Q2 (5 points): Ignoring head loss from the piping system, determine the maximum height (h) of the pump above the water surface that can be used without cavitation.



$$u_2 - u_1 = 0$$

$$P / 2$$
 $U_2 - U_1 = 0$
 $V_1 / 2$
 $V_2 - V_1 = P_0 + 0$
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