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Fluid Mechanics Problems for Qualifying Exam (Fall 2014) 1. Consider a steady, incompressible boundary layer with thickness, $\delta(x)$, that de-velops on a flat plate with leading edge at $x = 0$. Based on a control volume analysis for the dashed box, answer the following: a) Provide an expression for the mass flux $\dot{m}$ based on $\rho, V \infty,$ andδ.

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Chapter 6. Fluid Mechanics Notes: ... Solution. According to equation (6.11), two points in fluid located at the same height are subjected to the same pressure. If we consider points 1 and 2 in Figure 3 both located at the surface of the fluid, then we can write p 1=p 2 F 1 A 1 = F 2 A 2 (6.16) and therefore 2F 2= A A 1 F 1. (6.17)

Chapter 6. Fluid Mechanics - Western University
Atmospheric pressure is like an invisible friend who is always squeezing you with a big hug. Learn more about pressure, buoyant force, and flowing fluid so you can appreciate the sometimes invisible, but crucial, effect they have on us and the world around us.

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