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PY 211

Discussion Section E9

11 April 2020

**Quiz #8**

**1-**

P = F \* A

(F\_1)\*(A\_1) = (F\_2) \* (A\_2)

**(F\_1)=((A\_2)/(A\_1))\* F\_2**

**B**

**2-**

(A)(v\_1) = 4A(v\_2)

((A)(v\_1))/4A = (v\_2)

.25(v\_1) = (v\_2)

P\_1 + .5(rho)(v)^2 + (rho)(g)(y) = P\_2 + .5(rho)(.25v)^2 + (rho)(g)(2y)

P\_1= P\_2 + (rho)(g)(y) + .5(rho)(v)^2((1/16)-1)

P\_1 – P\_2 = (rho)(g)(y) - .46875(rho)v^2

**Change in pressure = (rho)(g)(y) - .46875(rho)v^2**