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PY 211

**Discussion Section E9** 

11 April 2020

Quiz #8

1-

$$P = F * A$$

$$(F_1)*(A_1) = (F_2)*(A_2)$$

$$(F_1)=((A_2)/(A_1))*F_2$$

В

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 $(rho)v^2$