Homework #3 Ryan Coyne

1.38) A adiabatic

B' iso the small

$$\left(\frac{\mathbf{v}_{b}}{\mathbf{v}_{A}}\right)^{y} = \frac{P_{e}}{?_{o}}$$

$$\frac{V_0}{V_{pr}} = \left(\frac{P_f}{P_0}\right)^{1/2}$$

$$V_A = \left(\frac{P_0}{P_0}\right)^V$$

$$V_B = \frac{P_s}{P_s} V_0$$

$$\frac{\frac{\rho_{o}}{\rho_{c}}}{\frac{\rho_{c}}{\rho_{c}}} > \left(\frac{\rho_{o}}{\rho_{c}}\right)^{1/\nu}$$

The water temperature is decreased by 6.66°C

$$H + T +$$

(C)
$$\Omega(4H) = \frac{4!}{4!0!} = 1$$

$$\Omega(3H) = \frac{4!}{3!1!} = 4$$

$$\Omega(2H) = \frac{4!}{2!2!} = \frac{24}{4} = 6$$

$$\Omega(1H) = \frac{4!}{1!3!} = 1$$

$$\Omega(0H) = \frac{4!}{0!4!} = 1$$