(P9.1) Carbon Dioxide,  $P_1 = 1.5MPa$   $P_2 = 0.1MPa$   $T_1 = 25^{\circ}C = 298K$   $T_2 = ??$ (a) assume ideal gas, for a valve,  $\Delta H = 0$   $\Rightarrow \Delta H = 0 = Cp(\Delta T)$ ,  $\Rightarrow \Delta T = 0, \Rightarrow T_2 = 298K$ (b) by using excel PREOS.XLS, implies H2 = H1, then T2 = 268.2K