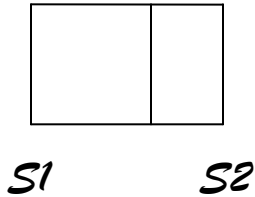
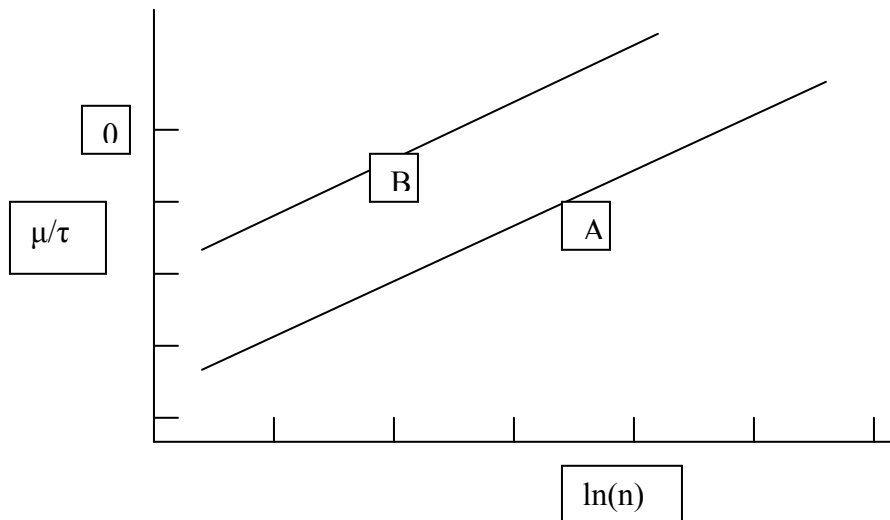


Phy 410
Quiz #6, March 5, 2010



- (i) **The temperature of $S1$ is τ_1 and of $S2$ is τ_2 . Only energy is exchanged. If $\tau_1 > \tau_2$ then which direction the energy flows?(2.5pts)**
- (ii) **Two systems have same τ but can exchange particles. If $\mu_2 > \mu_1$, which directions the particles flow? (2.5pt)**



- (iii) **Two ideal gas systems A and B are at the same τ and have the above μ/τ . Which atoms are heavier and why? (5 points)**

