Phy 410
Quiz #3, Feb 5, 2010

A system has 4 microstates with energies 0, 0, ε, 2ε respectively.

a) What is the partition function at temperature τ? (3 points)

b) What is the average energy of the system as function of τ? (3 points)

c) What is the average energy as $\tau \to 0$? (2 points)

d) What is the average energy as $\tau \to \infty$? (2 points)