Homework #3

(Due on 12:00am, Thursday, Nov. 18th, 2010)

1. Why does the switch table have a TTL?

2. Please describe briefly the learning process of a switch.

3. How are SNR and BER connected? How can decreasing the transmission rate increase the throughput? (a bit of physics☺) Why is the slowest transmission rate BPSK not using amplitude modulation anymore?

4. How can a host C. hidden to either host A or host B, nevertheless interfere with the A-B link. Assume a spatial setup of A – B – C.

5. Draw a general PPP frame. How does the binary data 0011 1001 1111 1001 0101 change if it is added to the frame?