Homework #3
(Due on 12:00am, Thursday, Nov. 19th, 2015)

1. Please briefly describe the learning process that a switch uses to fill its tables.

2. What are the differences between a switch and a hub?

3. What are the differences between a switch and a router?

4. What is the byte stuffing in PPP protocol?

5. Please explain the Hidden Terminal Problem.

6. Consider the IEEE 802.11 MAC Protocol: How does CSMA/CA tackle the problem of collisions (what steps are taken at the sender and receiver respectively)? What is the idea behind the RTS/CTS concept?

7. What's the main difference between Ethernet protocol and MPLS, ATM protocols?