CPE 400/600: Computer Communication Networks

NAME: Zachary L. Johnson CPE400/600: 400

**HW 2 (Total 20 points)**

**Assigned on: Oct 2, 2017, Due back on: Oct 9, 2017 (at the beginning of class)**

**Part 1**

1. [2] *Write your answer and insert corresponding screen shot here (if applicable).*

The three-way connection establishment process uses a system that sends out a message, receives back a message, then sends a ACK that it received the response back. In class we were shown with the two general example that this process can still fail but decreases the likelihood of failure exponentially. The two-way connection process only uses a simple send and receive acknowledgment process. This means that a message can be easily lost during transit and the other end would have no way of knowing. By using the three-way instead of two-way you increase the success with little trouble.

2. [2] *Write your answer and insert corresponding screen shot here (if applicable).*

3. [3+3+4=10] Show your steps through X-Y plot (you can use the back of the sheet for more space):

**Part 2**

4. [1] *Write your answer and insert corresponding screen shot here (if applicable).*

*5. [1] Write your answer and insert corresponding screen shot here (if applicable).*

*6. [2] Write your answer and insert corresponding screen shot here (if applicable).*

**Part 2: TCP Congestion Control**

*7. [1] Write your answer and insert corresponding screen shot here (if applicable).*

*8. [1] Write your answer and insert corresponding screen shot here (if applicable).*

[Important Note for Assignment 2: When answering the wireshark questions, additionally, you must take screen shots of the appropriate messages and indicate where in the message you’ve found the information that answers the questions.]