Pre Lab 2 – Single Segment IP Networks

1. Review Linux man pages for arp at [www.linuxmanpages.com](http://www.linuxmanpages.com) (in both Sections 7 and 8), the ARP RFC (RFC 826) at [www.ietf.org](http://www.ietf.org), and Section 3.4 of the IBM Red Book.

2. Write the syntax for an `ethereal` command with a capture filter so that all IP datagrams with a source or destination IP address equal to 10.0.1.12 are recorded.

3. Write the syntax for an `ethereal` display filter that shows IP datagrams with a destination IP address equal to 10.0.1.50 and frame sizes greater than 400 bytes.

4. Write the syntax for an `ethereal` display filter that shows packets containing ICMP messages with a source or destination IP address equal to 10.0.1.12 and with frame numbers between 15 and 30.

5. Write the syntax for an `ethereal` display filter that shows packets containing TCP segments with a source or destination IP address equal to 10.0.1.12 and using port 23.

6. Write a capture filter for question 5.