CSSE 490 -- NETWORK SECURITY

Rose-Hulman Institute of Technology

IPv4 Addressing Worksheet

Name: _____

Question 1. (5 points) How many hosts can a `class A` network have?

Question 2. (5 points) What class does the address `127.255.255.3`?

Question 3. (5 points) What are the main limitations of the class-based network addressing?

Question 4. (5 points) Consider the IPv4 address: `10.10.8.32/24`, what subnet does it belong to?

Question 5. (5 points) How many hosts can the network `192.168.3.100/22` have?

Question 6. (5 points) Consider the IPv4 address `172.139.55.197` with a subnet mask of `255.255.255.192`, what is its network prefix?

Question 7. (5 points) Can the address `172.139.55.3` belong to this subnet?

Question 8. (5 points) What is the range of addresses on this subnet?