IP Address Questions:

Please give a short description as to how you calculated the answer.

1) Please create a network for the following number of Hosts and give the Subnet Mask and Network range for each:
   a) 20 Hosts
   b) 40 Hosts
   c) 100 Hosts

2) Following are some IP addresses. Please give the Network ID for Each and the Broadcast address as well
   a) 10.0.77.77/22
   b) 200.2.3.5/29
   c) 78.87.85.55/17

3) You work for a large communications corporation named GlobeComm which has been assigned a Class A network address. Currently, the company has 1,000 subnets in offices around the world. You want to add 100 new subnets over the next three years, and you want to allow for the largest possible number of host addresses per subnet.

Which subnet mask would you choose?

4) Which of the following is a valid IP host address given the network ID of 191.254.0.0 while using 11 bits for subnetting?
a. 191.254.0.32
b. 191.254.0.96
c. 191.254.1.29
d. 191.54.1.64

5) What is the network ID portion of the IP address 191.154.25.66 if the default subnet mask is used?