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**Homework 1**

**Example 1: Given the following IP address 122.72.240.192 and a subnet mask of 255.192.0.0/10 determine the following:**

1. **Class of the IP**
2. **Default subnet mask**
3. **Network Address**

1. **Broadcast address of the network**

1. **Subnet ID**
2. **Network Bits=……,Host Bits=….., Subnet Bits=………**
3. **Broadcast address of the subnet.**
4. **First host in the subnet.**

1. **Last host in the subnet.**

**Example 2: Given the following IP address 188.35.167.155 a subnet mask of 255.255.192.0/18 determine the following:**

1. **Class of the IP**

1. **Default subnet mask**

1. **Network Address**

1. **Broadcast address of the network**

1. **Subnet ID**
2. **Network Bits=……,Host Bits=….., Subnet Bits=………**
3. **Broadcast address of the subnet.**
4. **First host in the subnet.**

1. **Last host in the subnet.**

**Example 3**: **Given the following IP address 220.33.56.240 a subnet mask of 255.255.255.248/29 determine the following:**

1. **Class of the IP**

1. **Default subnet mask**

1. **Network Address**

1. **Broadcast address of the network**

1. **Subnet ID**

1. **Network Bits=……,Host Bits=….., Subnet Bits=………**
2. **Broadcast address of the subnet.**
3. **First host in the subnet.**

1. **Last host in the subnet.**