Questions

1. What is the subnet ID for this device's subnet?

136.186.68.96/26

136.186.68.64

2. What is the broadcast address for this devices subnet?
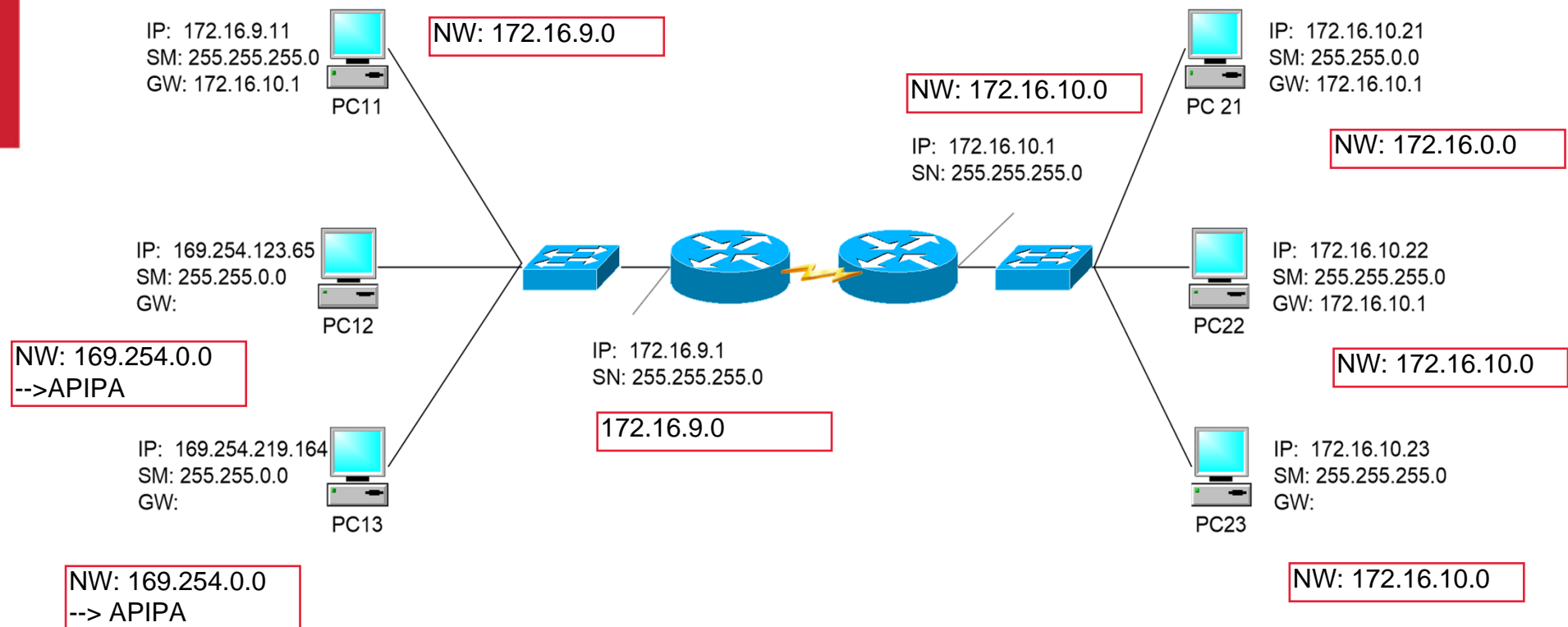
172.32.34.10/19

172.32.63.255

3. Are these addresses in the same subnet?

PCa *192.168.10.126/25*   **PCb** *192.168.10.130/25*

No, they are not. PCa subnet id = 192.168.10.0
PCb subnet id = 192.168.10.128

IP Addressing

IP: 172.16.9.11
SM: 255.255.255.0
GW: 172.16.10.1
PC11

NW: 172.16.9.0

IP: 169.254.123.65
SM: 255.255.0.0
GW:
PC12

NW: 169.254.0.0
-->APIPA

IP: 169.254.219.164
SM: 255.255.0.0
GW:
PC13

NW: 169.254.0.0
--> APIPA

IP: 172.16.9.1
SN: 255.255.255.0

172.16.9.0

NW: 172.16.10.0

IP: 172.16.10.1
SN: 255.255.255.0

IP: 172.16.10.21
SM: 255.255.0.0
GW: 172.16.10.1
PC 21

NW: 172.16.0.0

IP: 172.16.10.22
SM: 255.255.255.0
GW: 172.16.10.1
PC22

NW: 172.16.10.0

IP: 172.16.10.23
SM: 255.255.255.0
GW:
PC23

NW: 172.16.10.0

Which PC's can communicate to each other? *(if not, explain why?)*

Note: Routers do not have Proxy ARP configured

PC12-PC13
(APIPA)

PC22-PC23 (same subnet)

PC21-PC22(default gatewaye config)