Switching lab

Q4

```
C:\>ping 192.168.0.12

Pinging 192.168.0.12 with 32 bytes of data:

Reply from 192.168.0.12: bytes=32 time=1ms TTL=128
Reply from 192.168.0.12: bytes=32 time<1ms TTL=128
Reply from 192.168.0.12: bytes=32 time<1ms TTL=128
Reply from 192.168.0.12: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.0.13

Pinging 192.168.0.13 with 32 bytes of data:

Reply from 192.168.0.13: bytes=32 time=1ms TTL=128
Reply from 192.168.0.13: bytes=32 time<1ms TTL=128
Reply from 192.168.0.13: bytes=32 time<1ms TTL=128
Reply from 192.168.0.13: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Q5

SWX1 is the root bridge because his priority is the same as all the other ones, but his MAC address is smaller.

Q6

```
SWX>enable
SWX#config t
Enter configuration commands, one per line.  End with CNTL/Z.
SWX(config)#spanning-tree vlan 3 root primary
SWX(config)#exit
SWX#
%SYS-5-CONFIG_I: Configured from console by console

SWX#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address      0000.0C31.8590
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32769  (priority 32768 sys-id-ext 1)
             Address      0009.7CBD.7603
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
--------------- ---- --- --------- -------- --------------------------------
Fa0/1           Altn BLK 19         128.1   P2p
Fa0/2           Root FWD 19          128.2   P2p
Fa0/3           Desg FWD 19          128.3   P2p

SWX#
```