2а) разбить сеть 10.0.1.0/24 на 2 подсети, на 4, на 8. Для каждого разбиения указать адрес сети, первого узла, последнего узла и широковещательный.

Две сети
1)
Network: 10.0.1.0/25   00001010.00000000.00000001.0 0000000
HostMin: 10.0.1.1   00001010.00000000.00000001.0 0000001
HostMax: 10.0.1.126   00001010.00000000.00000001.0 1111110
Broadcast: 10.0.1.127   00001010.00000000.00000001.0 1111111
2)
Network: 10.0.1.128/25   00001010.00000000.00000001.1 0000000
HostMin: 10.0.1.129   00001010.00000000.00000001.1 0000001
HostMax: 10.0.1.254   00001010.00000000.00000001.1 1111110
Broadcast: 10.0.1.255   00001010.00000000.00000001.1 1111111

Четыре сети
1)
Network: 10.0.1.0/26   00001010.00000000.00000001.00 000000
HostMin: 10.0.1.1   00001010.00000000.00000001.00 000001
HostMax: 10.0.1.62   00001010.00000000.00000001.00 111110
Broadcast: 10.0.1.63   00001010.00000000.00000001.00 111111
2)
Network: 10.0.1.64/26   00001010.00000000.00000001.01 000000
HostMin: 10.0.1.65   00001010.00000000.00000001.01 000001
HostMax: 10.0.1.126   00001010.00000000.00000001.01 111110
Broadcast: 10.0.1.127   00001010.00000000.00000001.01 111111
3)
Network: 10.0.1.128/26   00001010.00000000.00000001.10 000000
HostMin: 10.0.1.129   00001010.00000000.00000001.10 000001
HostMax: 10.0.1.190   00001010.00000000.00000001.10 111110
Broadcast: 10.0.1.191   00001010.00000000.00000001.10 111111
4)
Network: 10.0.1.192/26   00001010.00000000.00000001.11 000000
HostMin: 10.0.1.193   00001010.00000000.00000001.11 000001
HostMax: 10.0.1.254   00001010.00000000.00000001.11 111110
Broadcast: 10.0.1.255   00001010.00000000.00000001.11 111111
Восемь сетей:
1)
Network: 10.0.1.0/27   00001010.00000000.00000001.000 00000
HostMin: 10.0.1.1   00001010.00000000.00000001.000 00001
HostMax: 10.0.1.30   00001010.00000000.00000001.000 11110
Broadcast: 10.0.1.31   00001010.00000000.00000001.000 11111
2)

```
Network:   10.0.1.32/27      00001010.00000000.00000001.001 00000
HostMin:   10.0.1.33        00001010.00000000.00000001.001 00001
HostMax:   10.0.1.62        00001010.00000000.00000001.001 11110
Broadcast: 10.0.1.63        00001010.00000000.00000001.001 11111
3)
Network:   10.0.1.64/27      00001010.00000000.00000001.010 00000
HostMin:   10.0.1.65        00001010.00000000.00000001.010 00001
HostMax:   10.0.1.94        00001010.00000000.00000001.010 11110
Broadcast: 10.0.1.95        00001010.00000000.00000001.010 11111
4)
Network:   10.0.1.96/27      00001010.00000000.00000001.011 00000
HostMin:   10.0.1.97        00001010.00000000.00000001.011 00001
HostMax:   10.0.1.126       00001010.00000000.00000001.011 11110
Broadcast: 10.0.1.127       00001010.00000000.00000001.011 11111
5)
Network:   10.0.1.128/27     00001010.00000000.00000001.100 00000
HostMin:   10.0.1.129       00001010.00000000.00000001.100 00001
HostMax:   10.0.1.158       00001010.00000000.00000001.100 11110
Broadcast: 10.0.1.159       00001010.00000000.00000001.100 11111
6)
Network:   10.0.1.160/27     00001010.00000000.00000001.101 00000
HostMin:   10.0.1.161       00001010.00000000.00000001.101 00001
HostMax:   10.0.1.190       00001010.00000000.00000001.101 11110
Broadcast: 10.0.1.191       00001010.00000000.00000001.101 11111
7)
Network:   10.0.1.192/27     00001010.00000000.00000001.110 00000
HostMin:   10.0.1.193       00001010.00000000.00000001.110 00001
HostMax:   10.0.1.222       00001010.00000000.00000001.110 11110
Broadcast: 10.0.1.223       00001010.00000000.00000001.110 11111
8)
Network:   10.0.1.224/27     00001010.00000000.00000001.111 00000
HostMin:   10.0.1.225       00001010.00000000.00000001.111 00001
HostMax:   10.0.1.254       00001010.00000000.00000001.111 11110
Broadcast: 10.0.1.255       00001010.00000000.00000001.111 11111
```

2б) сколько хостов будет в сети 172.16.1.0/25,
Hosts/Net: 126
 в сети 10.0.0.0/26 ?
Hosts/Net: 62
2в) какой будет броадкаст адрес в сети 10.0.0.0/30,
```
Broadcast: 10.0.0.3          00001010.00000000.00000000.000000 11
```
 в сети 10.255.255.124/30 ?
```
Broadcast: 10.255.255.127     00001010.11111111.11111111.011111 11
```