

## Exercises lab 3

1.

- a) 192.168.0.1 → 192.168.255.254
- b) 192.168.128.1 → 192.168.255.254
- c) 192.168.128.1 → 192.168.191.254
- d) 192.168.128.1/8 = 192.0.0.1 → 192.255.255.254

2.

- a) Network ID = 192.168.0.0  
Host ID = 0.0.0.64
- b) Network ID= 27.78.101.0  
Host ID= 0.0.0.26
- c) Network ID=172.134.0.0  
Host ID= 0.0.56.34
- d) Network ID= 192.0.0.0  
Host ID= 0.40.0.23

3.

Subnet	IP address	Sub mask	Hosts
Subnet 1	10.128.192.0	255.255.255.192	62
Subnet 2	10.128.192.64	255.255.255.224	30
Subnet 3	10.128.192.96	255.255.255.224	30

4.

- a) Next hop is to D = default
- b) Next hop is to B
- c) Next hop is to B
- d) Next hop is to C
- e) Next hop is to D = default

5.

Destination	Hops	Router
Network 2	6	A
Network 3	4	C
Network 4	2	C
Network 5	2	C
Network 6	3	B

6.

	A	B	C	D	E
Neighbor	-	A	A	B	D
Distance	0	1	2	3	4