

3) c) Give each router a table mapping IPv4 addresses to MAC addresses

b) Determine unique IP addresses for hosts.

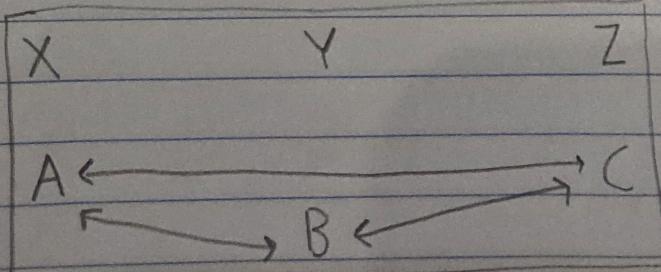
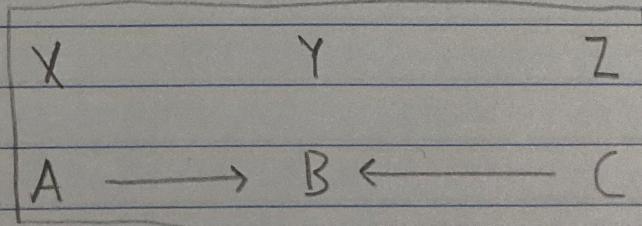
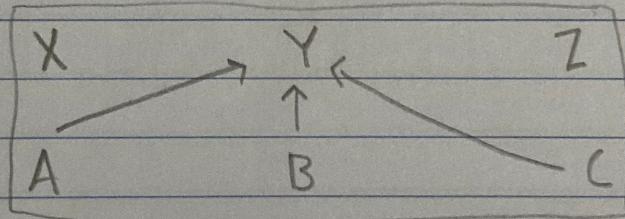
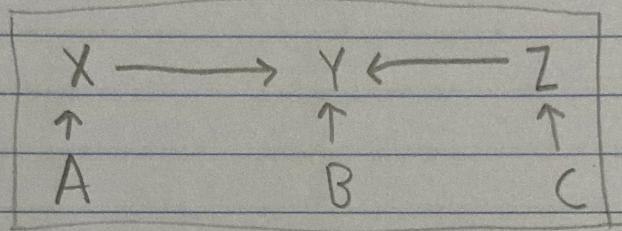
c) Nothing (you can just send all broadcasts to all)

d) Give each node a table mapping destination to next hop.

2) c) A is a customer of X, so A exports to X but X, Y, and Z do not transport traffic for non-customers, and C is not a customer of X and Y.

If they could communicate, Y would be put at a disadvantage, since neither A nor C pays Y but it would be forced to transport their traffic.

b)



1) a)

	Src	Dest
Ethernet	MAC_H1	MAC_INFO
IP	192.168.12.10	192.168.3.161

b)

Dest. Network	Next Hop
192.168.12.0/24	192.168.12.1
192.168.3.0/24	192.168.3.1
130.213.10.0/30	130.213.10.2
Default	130.213.10.1

c)

	Src	Dest
Ethernet	MAC_IF1	MAC_H3
IP	192.168.12.10	192.168.3.161

d)

H1 ARP Cache S1 MAC Table

IP	HW Addr	HW Addr	Port
192.168.12.1	MAC_INFO	MAC_INFO	p0
		MAC_H1	p1

e)

	Src	Dest
Ethernet	MAC_IF2	MAC_IF3
IP	192.168.12.1	5.6.7.8