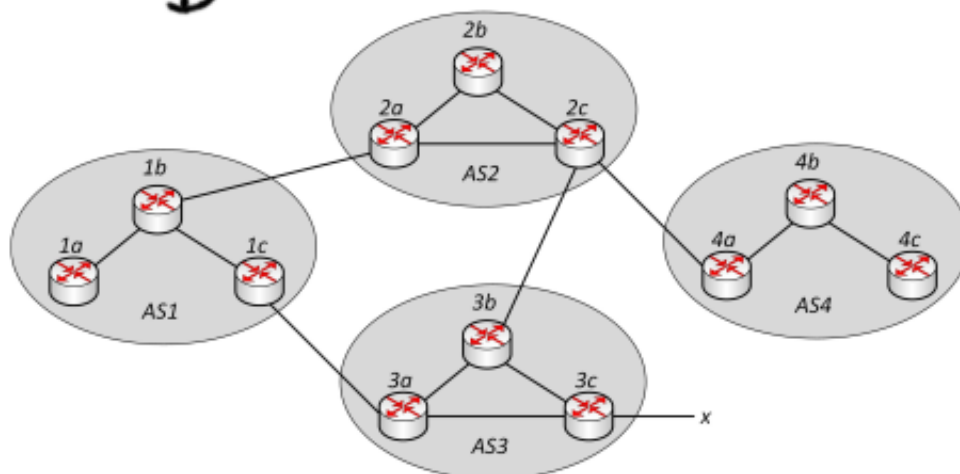
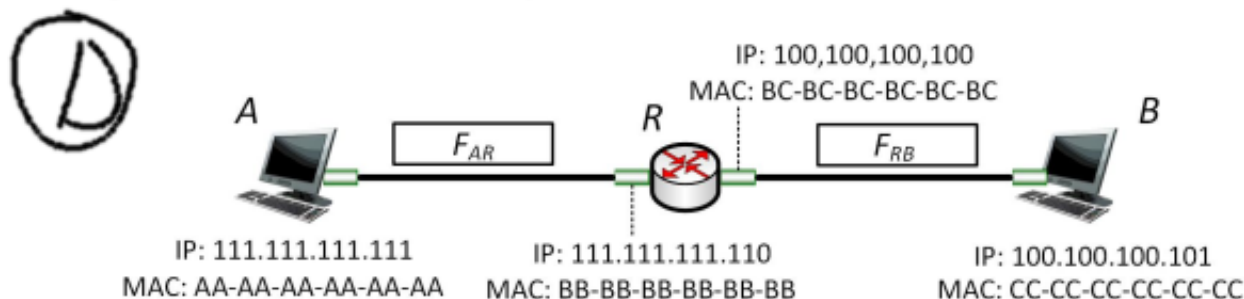


8. (Single answer) Consider the network shown below. Suppose that AS1 and AS2 are running RIP for their intra-AS routing protocol. Suppose that AS3 and AS4 are running OSPF for their intra-AS routing protocol. Further assume that eBGP and iBGP are used for the inter-AS routing protocol. Which of the following statement is ~~not~~ correct? (D)



- (A) Router 2b learns about prefix x from RIP.
- (B) Router 1a learns about prefix x from RIP.
- (C) Router 3a learns about ~~prefix~~ x from eBGP.
- (D) Router 4b learns about prefix x from iBGP.

9. (Multiple answers) Consider the following network. Suppose that host A sends a datagram to host B through router R , which results in link-layer frame F_{AR} sent from A to R and frame F_{RB} sent from R to B .



Which of the following statement about frames F_{AR} and F_{RB} are correct? ()

- (A) Frame F_{AR} has source IP address 111.111.111.111 and destination IP address 100.100.100.101, and frame F_{RB} has source IP address 100.100.100.100 and destination IP address 100.100.100.101.
- (B) Frame F_{AR} has source IP address 111.111.111.111 and destination IP address 100.100.100.101, and frame F_{RB} has source IP address 111.111.111.111 and destination IP address 100.100.100.101.
- (C) Frame F_{AR} has source MAC address AA-AA-AA-AA-AA-AA and destination MAC address BB-BB-BB-BB-BB-BB, and frame F_{RB} has source MAC address BC-BC-BC-BC-BC-BC and destination MAC address CC-CC-CC-CC-CC-CC.
- (D) Frame F_{AR} has source MAC address AA-AA-AA-AA-AA-AA and destination MAC address CC-CC-CC-CC-CC-CC, and frame F_{RB} has source MAC address BC-BC-BC-BC-BC-BC and destination MAC address CC-CC-CC-CC-CC-CC.