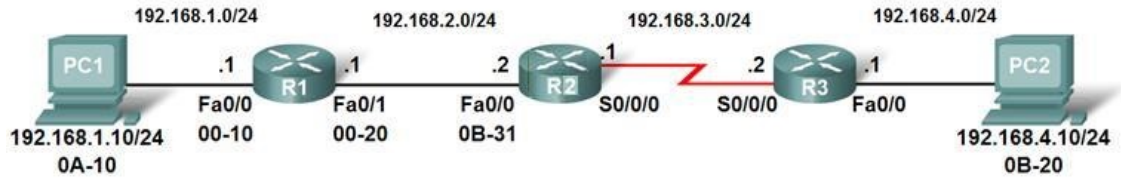


Quiz 7, November 12 2015

Left Neighbor: _____

Right Neighbor: _____

This is a closed book quiz



Layer 2 Data Link Frame			Packet's Layer 3 data				
Dest Mac		Type 800	Dest. IP	Source IP	IP Fields	Data	Trailer
0B-31			192.168.4.10	192.168.1.10			

R1's ARP Cache	
IP Address	MAC Address
192.168.2.2	EMPTY

R1's Routing Table			
Network	Hops	Next Hop IP	Exit Interface
192.168.1.0/24	0	Dir. Connect	Fa0/0
192.168.2.0/24	0	Dir. Connect	Fa0/1
192.168.3.0/24	1	192.168.2.2	Fa0/1
192.168.4.0/24	2	192.168.2.2	Fa0/1

vspace.lin

TA Name: _____

Name: _____

(10 points) On the opposite side is a familiar picture . Describe the (approximately 8) steps that take place on Router 1 (R1) when it receives an Ethernet frame that originated at PC1 and contains a datagram bound for PC2. To get full credit, you have to correctly use these terms in your steps: *MAC address, IP address, Routing Table, decapsulate, encapsulate, Layer 2, Layer 3, ARP, broadcast*. **BE SUCCINCT!** (TAs: 8 points for right concept, and 2 points for stating it directly and concisely.)