CS 3516 Lab 3

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1. 00:d0:59:a9:3d:68

2. 00:06:25:da:af:73. No, this is the address of the router.

3. 0x0800. This corresponds to IPv4.

4. 54 bytes.

5. 00:06:25:da:af:73. No, this is still the address of the router.

6. 00:d0:59:a9:3d:68. This is the address of my computer.

7. 0x0800. This corresponds to IPv4.

8. 67 bytes.

9.

Address	HWtype	HWaddress	Flags Mask	Iface
192.168.1.146	ether	00:17:88:b4:09:c2	C	wlp4s0
192.168.1.201	ether	3c:52:82:f8:73:6f	C	wlp4s0
192.168.1.71	ether	30:5a:3a:82:b8:1f	C	wlp4s0
gateway	ether	60:45:cb:cb:31:d0	C	wlp4s0

The "address" table shows the IP address, "HWtype" shows the hardware type, the "HWaddress" shows the physical MAC address, and "Iface" shows the interface.

10. The source is 00:d0:59:a9:3d:68 and the destination is ff:ff:ff:ff:ff:ff.

11. The ethernet frame type field is 0x0806. This corresponds to ARP.

12. (a) 20 bytes.

    (b) 0x0001

    (c) Yes.

    (d) 38 bytes.

13. (a) 20 bytes.

    (b) 0x0002

    (c) 22 bytes.

14. Source: 00:06:25:da:af:73. Destination: 00:d0:59:a9:3d:68.

15. Packet 6 is an ARP query from the computer with IP address 192.168.1.104. We don't see the reply because it was only sent to 192.106.1.104.