Homework 2 - Wireshark

1. In the first TCP packet, what is the MAC address of the destination?
   - MAC address: fe:ff:20:00:01:00

2. What are the absolute sequence and acknowledgement numbers of the ACK packet observed during the three-way handshake?
   - Absolute sequence number: 951057940
   - Absolute acknowledgement number: 290218380

3. What ports are used for the TCP communication during the three-way handshake? List the ports that the client (source) and the server (destination) used.
   - The port # (client used): 3372
   - The port # (server used): 80

4. What are the MSSs (Maximum Segment Size) exchanged during the three-way handshake?
   - The client's MSS: 1460
   - The server's MSS: 1380

5. What are the Window Sizes exchanged during the three-way handshake?
   - The client's Window Size in the SYN packet: 8760
   - The server's Window Size in the SYN/ACK packet: 5840

6.
   1) Domain name to be resolved:
   2) CNAME record (a): pagead2.googlesyndication.com
   3) CNAME record (b): pagead.google.com
   4) A record (not a record):

A Record (1): pagead.google.akadns.net A 216.239.59.104

A Record (2): pagead.google.akadns.net A 216.239.59.99

   5) The two IP addresses of the A record:
      - 216.239.59.104
      - 216.239.59.99
7. List the hostnames the client accessed in this capture. Find two unique host names that do not have commonality.
      - Host: www.ethereal.com\r\n

- Host: pagead2.googlesyndication.com\r\n