1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.
   a. HTTP
   b. TCP
   c. ICMPv6

No.	Time	Source	Destination	Protocol	Length	Info
772	92.13996900C	10.0.0.2	128.119.245.12	HTTP	478	GET /wireshark-labs/INTRO-wireshark-1
773	92.14076600C	128.119.245.12	10.0.0.2	TCP	74	80→37390 [SYN, ACK] Seq=0 Ack=1 Win=2
774	92.14077700C	10.0.0.2	128.119.245.12	TCP	66	37390→80 [ACK] Seq=1 Ack=1 Win=29312
775	92.23930500C	128.119.245.12	10.0.0.2	TCP	66	80→37391 [ACK] Seq=1 Ack=413 Win=3008
776	92.24027400C	128.119.245.12	10.0.0.2	HTTP	506	HTTP/1.1 200 OK (text/html)
777	92.24028100C	10.0.0.2	128.119.245.12	TCP	66	37391→80 [ACK] Seq=413 Ack=441 Win=36
778	92.31196600C	10.0.0.2	128.119.245.12	HTTP	424	GET /favicon.ico HTTP/1.1
779	92.40949900C	128.119.245.12	10.0.0.2	HTTP	552	HTTP/1.1 404 Not Found (text/html)
780	92.40951700C	10.0.0.2	128.119.245.12	TCP	66	37391→80 [ACK] Seq=771 Ack=927 Win=31
781	92.47008500C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400a:806::2€	TCP	86	[TCP Keep-Alive] 39649→443 [ACK] Seq=
782	92.48525700C	2607:f8b0:400a:806::2€	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 443→39649 [ACK]
783	92.53408800C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400e:c03::bc	TCP	86	[TCP Keep-Alive] 41560→5228 [ACK] Se
784	92.56238800C	2607:f8b0:400e:c03::bc	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 5228→41560 [ACK]
785	94.55177400C	fe80::226:f3ff:fef5:6f	ff02::1	ICMPv6	150	Router Advertisement from 00:26:f3:f5
786	95.60611400C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400a:806::2€	TCP	86	[TCP Keep-Alive] 49279→443 [ACK] Seq=
787	95.60612300C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400a:806::2€	TCP	86	[TCP Keep-Alive] 49278→443 [ACK] Seq=
788	95.62118000C	2607:f8b0:400a:806::2€	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 443→49279 [ACK]
789	95.62525500C	2607:f8b0:400a:806::2€	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 443→49278 [ACK]
790	95.86211000C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400a:801::2€	TCP	86	[TCP Keep-Alive] 59622→443 [ACK] Seq=
791	95.87723200C	2607:f8b0:400a:801::2€	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 443→59622 [ACK]
792	96.11809100C	2601:1c0:8801:6d9a:8cc	2607:f8b0:400a:806::2€	TCP	86	[TCP Keep-Alive] 39654→443 [ACK] Seq=
793	96.13336500C	2607:f8b0:400a:806::2€	2601:1c0:8801:6d9a:8cc	TCP	86	[TCP Keep-Alive ACK] 443→39654 [ACK]
794	96.95008600C	fe80::d63d:7eff:febc:€	fe80::226:f3ff:fef5:6f	ICMPv6	86	Neighbor Solicitation for fe80::226:1
795	96.95059400C	fe80::226:f3ff:fef5:6f	fe80::d63d:7eff:febc:€	ICMPv6	78	Neighbor Advertisement fe80::226:f3f1
796	97.41387900C	128.119.245.12	10.0.0.2	TCP	66	80→37391 [FIN, ACK] Seq=927 Ack=771 W
797	97.45008300C	10.0.0.2	128.119.245.12	TCP	66	37391→80 [ACK] Seq=771 Ack=928 Win=31
798	97.93164600C	fe80::226:f3ff:fef5:6f	ff02::1	ICMPv6	150	Router Advertisement from 00:26:f3:f5

2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received?
   a. 0.1003 seconds

772 16:29:44.527624000	10.0.0.2	128.119.245.12	HTTP	478 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
776 16:29:44.627929000	128.119.245.12	10.0.0.2	HTTP	506 HTTP/1.1 200 OK (text/html)

3. What is the Internet address of the gaia.cs.umass.edu? What is the Internet address of your computer?
   a. Gaia.cs.umass.edu: 128.119.245.12
   b. My computer: 10.0.0.2
4. Print the two HTTP messages (GET and OK) referred to in question 2 above.

No.	Time	Source	Destination	Protocol	Length	Info
772	16:29:44.527624000	10.0.0.2	128.119.245.12	HTTP	478	GET /wireshark-

labs/INTRO-wireshark-file1.html HTTP/1.1

Frame 772: 478 bytes on wire (3824 bits), 478 bytes captured (3824 bits) on interface 0
Ethernet II, Src: Micro-St_bc:6b:1c (d4:3d:7e:bc:6b:1c), Dst: SmcNetwo_f5:6f:e2 (00:26:f3:f5:6f:e2)
Internet Protocol Version 4, Src: 10.0.0.2 (10.0.0.2), Dst: 128.119.245.12 (128.119.245.12)
    Version: 4
    Header Length: 20 bytes
    Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00: Not-ECT (Not ECN-Capable
Transport))
    Total Length: 464
    Identification: 0x7197 (29079)
    Flags: 0x02 (Don't Fragment)
    Fragment offset: 0
    Time to live: 64
    Protocol: TCP (6)
    Header checksum: 0x480b [validation disabled]
    Source: 10.0.0.2 (10.0.0.2)
    Destination: 128.119.245.12 (128.119.245.12)
    [Source GeoIP: Unknown]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 37391 (37391), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 412
Hypertext Transfer Protocol
    GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
    Host: gaia.cs.umass.edu\r\n
    Connection: keep-alive\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/49.0.2623.110 Safari/537.36\r\n
    Accept-Encoding: gzip, deflate, sdch\r\n
    Accept-Language: en-US,en;q=0.8\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
    [HTTP request 1/2]
    [Response in frame: 776]
    [Next request in frame: 778]

GET

```
No.     Time                  Source              Destination          Protocol Length Info
    776 16:29:44.627929000 128.119.245.12      10.0.0.2             HTTP     506    HTTP/1.1 200 OK
(text/html)

Frame 776: 506 bytes on wire (4048 bits), 506 bytes captured (4048 bits) on interface 0
Ethernet II, Src: SmcNetwo_f5:6f:e2 (00:26:f3:f5:6f:e2), Dst: Micro-St_bc:6b:1c (d4:3d:7e:bc:6b:1c)
Internet Protocol Version 4, Src: 128.119.245.12 (128.119.245.12), Dst: 10.0.0.2 (10.0.0.2)
    Version: 4
    Header Length: 20 bytes
    Differentiated Services Field: 0x20 (DSCP 0x08: Class Selector 1; ECN: 0x00: Not-ECT (Not ECN-Capable
Transport))
    Total Length: 492
    Identification: 0x81e3 (33251)
    Flags: 0x02 (Don't Fragment)
    Fragment offset: 0
    Time to live: 47
    Protocol: TCP (6)
    Header checksum: 0x4883 [validation disabled]
    Source: 128.119.245.12 (128.119.245.12)
    Destination: 10.0.0.2 (10.0.0.2)
    [Source GeoIP: Unknown]
    [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 80 (80), Dst Port: 37391 (37391), Seq: 1, Ack: 413, Len: 440
Hypertext Transfer Protocol
    HTTP/1.1 200 OK\r\n
    Date: Mon, 04 Apr 2016 23:29:44 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.9dev Perl/v5.16.3\r\n
    Last-Modified: Mon, 04 Apr 2016 05:59:02 GMT\r\n
    ETag: "51-52fa26cea06be"\r\n
    Accept-Ranges: bytes\r\n
    Content-Length: 81\r\n
    Keep-Alive: timeout=5, max=100\r\n
    Connection: Keep-Alive\r\n
    Content-Type: text/html; charset=UTF-8\r\n
    \r\n
    [HTTP response 1/2]
    [Time since request: 0.100305000 seconds]
    [Request in frame: 772]
    [Next request in frame: 778]
    [Next response in frame: 779]
Line-based text data: text/html
```

OK