

**CS 372                      Introduction to Computer Networks**  
**Self-Check Exercises: Lecture 24**

- 1) Where do Network-layer protocols run?
- 2) What is the purpose of the network layer?
- 3) What is the difference between routing and forwarding?
- 4) What is a “first hop” router?
- 5) What is a virtual-circuit network? What are some benefits of this type of network?
- 6) What is a datagram network? What are some benefits of this type of network?
- 7) How does a router know which output port each one of the billions of IP addresses are located at?