Name:

Exercise 4

1. Suppose that an IP router has four interfaces, numbered 0 through 3, and it is currently using the forwarding table given below. Find the appropriate output interfaces for the packets with the following destination IP addresses.
   a. 1.0.0.1
   b. 1.0.1.0
   c. 1.0.1.1
   d. 1.1.1.1

Forwarding table of the router:

Subnet Prefix / Mask	Interface
1.0.0.0/16	0
1.0.1.0/24	1
1.1.0.0/16	2
1.1.1.0/24	3

2. Consider the following network with the IP addresses assigned to each host/router network interface.
   a. Identify subnets
   b. Assign subnet masks to each subnet you identified in part (a) to create an appropriate addressing scheme.