Chapter 7 & 8 Homework Week 3 Vishvak Baskaran Data communications and Networking

P7-6:

Ans:

Using table 7.2 in Textbook to obtain the power of each frequency  
1 Khz, dB=-3 , P2=p1\*10(-3/10) = 100.23mw

10 Khz, db=-7, P2=p1\*10(-7/10)= 39.90mw

100Khz, dB=-20, P2=P1\*10(-20/10)= 2.00mw

P8-6:

Ans:

Switching or routing in a datagram network is defined based upon the destination address and it’s global. The minimum number of entries is two; one for the destination and the other one for the output port. Also, the input port is irrelevant. The switching or routing in a virtual-circuit net-work is based on the virtual circuit identifier. This means that two different input or output ports may use the same virtual-circuit number. Thus, four pieces of information are required; input port, input virtual circuit number output port and output virtual circuit number.