CS/EE 145A Networking

Homework Set # 2
Due: Friday, 2 November 07

1. A single window-controlled transfer takes place over a connection with base round-trip time 200 ms. The bottleneck link bandwidth is 2 Mbps, and each packet contains 1000 bytes.

   (a) Determine the minimum window size (in packets) required to fully utilize the bottleneck link.

   (b) Suppose the bottleneck link has a buffer that can store 40 packets. What happens with the bottleneck link buffer and link utilization if a window of 80 packets is used?

2. Find the max-min fair allocation for the following network. Please show you derive the answer.