

Online Exam #3, Problem #12

Suppose two TCP stations (a sender and a receiver) have established a connection between them successfully. Suppose that (i) the sender runs the **TCP New Reno** congestion control scheme and, initially,  $cwnd = 1$  data segment and  $ssthresh = 4$  data segments; (ii) the receiver has informed the sender that  $rwnd = 10$  data segments; (iii) **data segments #15 and #16 are lost** on the first attempt, while all other transmissions (including re-transmitted data segments and ACK frames) are successful. The sender behavior at time  $4 \cdot RTT$  (Round-Trip Time) is shown in the table below. Complete the rest of the table for the sender behavior at  **$5 \cdot RTT$ ,  $6 \cdot RTT$ ,  $7 \cdot RTT$ , and  $8 \cdot RTT$** .

[illegible]