Problem 6

- a) Link utilization = $\frac{T_{pkt}}{RTT+T_{pkt}} \geq 0.6.$ Verify that $L \geq 240$ bits.
- b) RTT=0.036 sec, $T_{pkt}=0.0003316$ sec, the protocol's throughput is maximized when $N\geq 1+2a$, where $a=\frac{RTT/2}{T_{pkt}}$. So, N=110. For GBN, it is safe to set the sequence space size M to N+1=111. So, $\log_2\lceil 111\rceil=7$ bits suffice.