Problem 2.

a) Before attempting to send a full window, the sending window is set to 2 KB, then 4KB, 8KB and 16KB. Each phase takes 1 RTT. Therefore the time required is 40 msec.

b) After a timeout, the next limit for congestion window is set to half of its current size, *i.e.*, 9KB. The slow start phase will ensue after the timeout, transmitting windows of size 1KB, 2KB, 4KB and 8KB one after another. Since the values do not exceed the current size of congestion window, the window size will still be 9KB.

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