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CSC335-01

Winter 09

Homework 7 : 17, 18, 29 (a, b), 31, 32

17. Efficiency is 50% when send time is equal to 2 \* Propagation delay.

4kpbs \* x kb > 20ms

x kb > 20ms / 4 bpms

x > 160

18.

29. Total time to send of frame and receive ACK = 1 + 271 + 1 + 271 = 542. Efficiency =

29a.

(b) *k* = 7, efficiency = 7/542 = 1.29%

(c) *k* = 4, efficiency = 4/542 = 0.74%