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1.

$$(1/B)t$$

2.

a	b	c	d	e	f	g	h
INF	INF	INF	INF	0*	INF	INF	INF
INF	8	INF	2	0*	6	2	INF
INF	4	INF	2*	0	5	2	INF
INF	4	8	2	0	5	2*	3
INF	4	8	2	0	5	2	3*
7	4*	5	2	0	5	2	3
7	4	5	2	0	5*	2	3
7	4	5*	2	0	5	2	3
7*	4	5	2	0	5	2	3

3.

$R = 200 \text{ Mbps}$

$S = .01 \text{ s}$

$M = 1000 \text{ Mbps}$

$B = S(M-R) = .01(1000 - 200) = 8$

4.

5.

6.

- a) 1-6, 23-26
- b) Triple Ack
- c) Timeout
- d) 32 because this is where slow start stops and congestion avoidance starts.
- e) $42/2 = 21$
- f) $26/2 = 13$
- g) The cwnd and ssthresh would be set to $8/2 = 4$

7.

- a) $8R + R*n$
- b) $4R + R*n$

c) $3R + R^n$

d) $R + R^n$