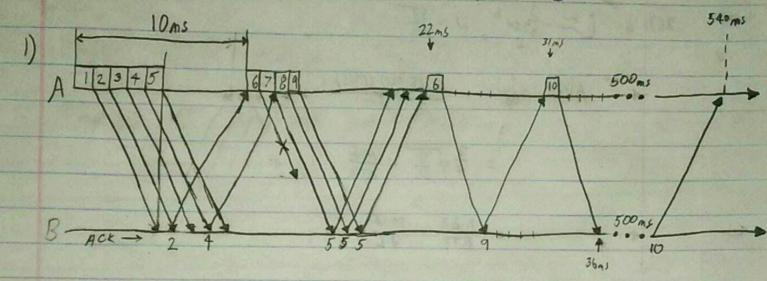
CS 132 - NETWORKS: HOMEWORK 3



2)6. a)
$$\frac{w}{2} + (\frac{w}{2} + 1) + ... + w = \sum_{n=0}^{w/2} (\frac{w}{2} + n)$$

$$= \left(\frac{\sqrt{2}}{2} + 1\right) \frac{\sqrt{2}}{2} + \sum_{n=0}^{N} n$$

$$= \frac{W^{2}}{4} + \frac{W}{2} + \frac{W^{2}}{3} + \frac{W}{4} = \frac{3}{8}W^{2} + \frac{2}{3}W$$
, Loss Rare is $\frac{3}{8}W^{2} + \frac{2}{9}W$

26) b. L= 3 w2, N= 13.

AV6. RATE = 0.75 (W) (MJS)
RTT

 $= \frac{3}{4}\sqrt{\frac{8}{3L}} \cdot \frac{MJS}{RTT}$

= 1.22 · MSS / VL

3) 1. Client IP: 192.168.1.109 Client Port: 2538

2. gaia. cs. umass. edu IP: 128.119.245.12 gaia. cs. umass. edu Port: 80

3. Client IP: 128.195.15.148 Client PORT: 36308

4. BY GIVEN TRACE FILE:

SEQUENCE No: 0 PACKET No: 1

FLAGS: 0 x 002 (SIN)

5. SEQUENCE No.: O. PACKET NO: 2

ACKNOWLEDGE VALUE: 1

Petermined by SYN PACKET SEQUENCE NUMBER +1.

FLAGS: 0 x 012 (SYN, ACK)

6. SEQUENCE No.: 1 PACKET No: 4

3)	7. SEQUENCE	Time	RTT	ESTIMATED RTI (0 = 0.125)		
	(+	0.026477		Di Zimor XII (Di anta)		
	566					
		0.091737				
SENT	2026	0.054026				
	3486	0.054690				
	1946	0.077405				
	6406	0.078157				
	(566	0.053437	0,6122	0.0122		
	2026	0.077294	0.0 23268	0.0135835		
ACK	3486	0.124085	0.069395	0.0205599375		
	4946	0, 169118	0.091713	0.02 945407631		
	6406	0.217299	0,139142	0.04316506152		
	8. 565 bytes, 1460 bytes, 1460 bytes, 1460 bytes, 1460 bytes					
	9. 6780 bytes. No, Window size is large enough					
		, , , ,				
	10. No. INFO DID NOT SHOW TOP Retransmission					
	10, 100, INTO DIT NOT THE TRANSMISSION					
	11 1400 L. V. T.					
	11. 1400 bytes. Yes, THERE ARE TEMES ACK ARE SENT FOR EVERY					
	STHER PAULET					
169091 bytes - 2-197 211 12 bytes 1						
	12. 5.461175-0.026471 = 30193, 214048 64+4/second					
	13. Slow START: [1-13], CONGESTION AVOIDANCE AFTER					
	14. 152949 Gyres = 233312,078397 Syter/second					
	NO SLOW START, CONNECTION WAS ALREADY ACTIVE WITH CONGESTION AVOIDANCE					
	是一个人,但是一个人的,我们也没有一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是 第一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们					