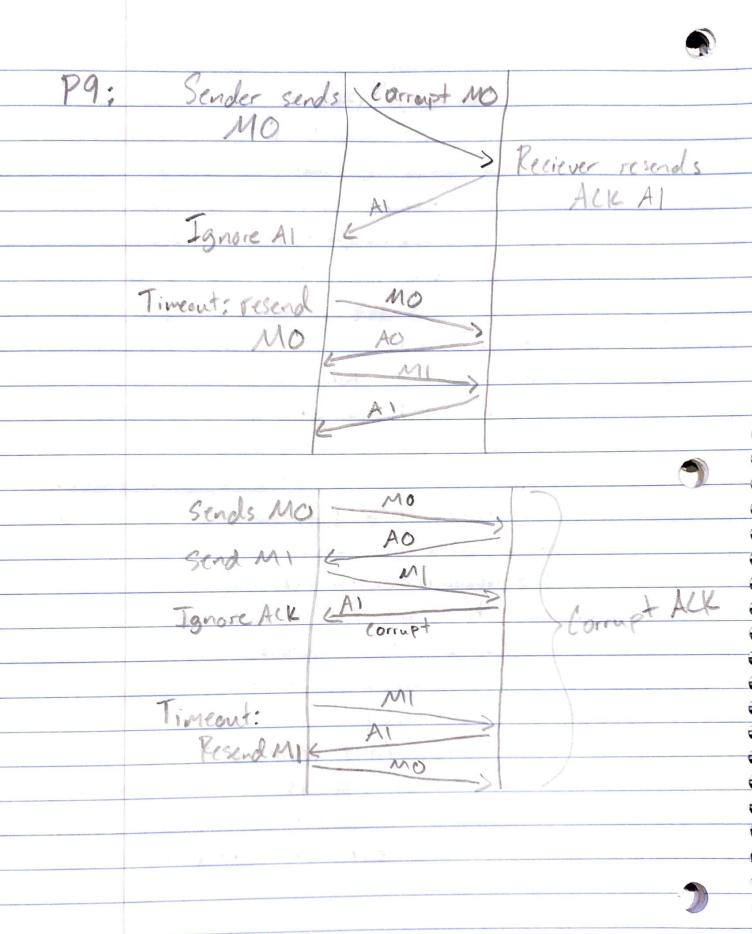
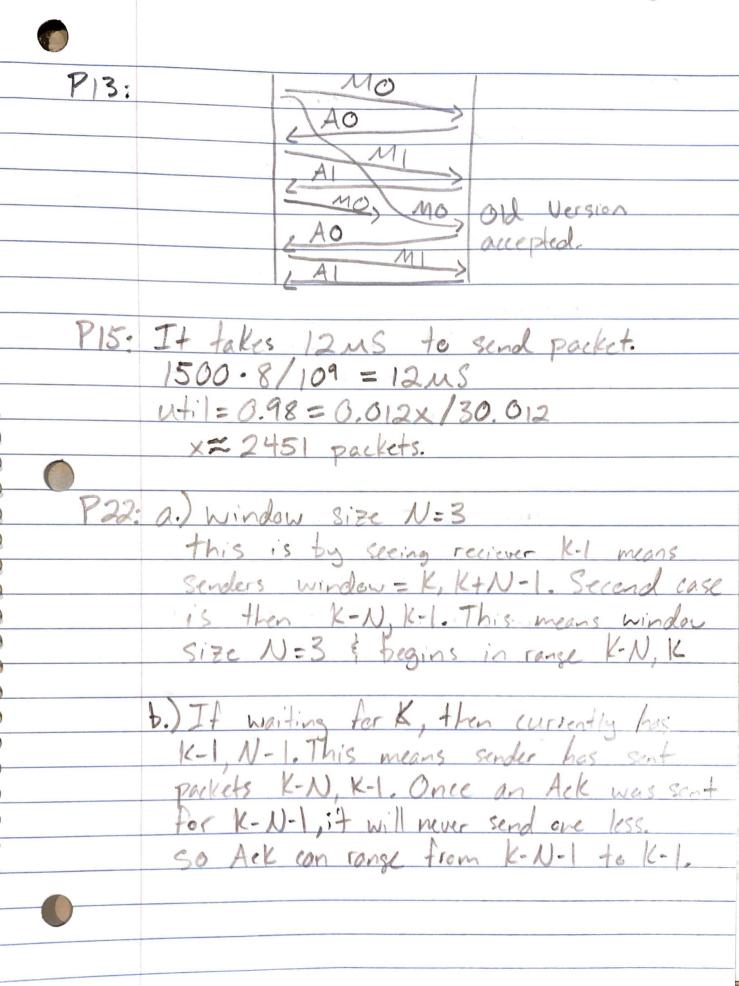
Gabriel Emerson Due 9/23 destination Port Source Port# a) A->S 467 b.) B->S 513 23 c.) S ->A 467 01010011 10111001 +01100110 +01110100 1011001 00101110 One's compliament = 11010001 To detect errors the reciever adds the 4 words. If sum contains O, the reciever sees an error. All 1-bit errors will be detected, but not all 2 bit errors if last digit of first word is and last digit of second word is converted to 1. No the reciever cannot be certain no bit errors have occured If two corresponding bits are o and I, then when they are flipped their Sum Stays the same Reciever edeulations are then also the same Checksum will always verition.







P23: It lovest number reciever is writing for is partet m. Then window (w) = m, m+w-1 and Ack has values m-w, m-1. This means the Senders window would be m-w, m-1. In order for leading edge of receivers window to not overlap trailing edge of sender window, the sequence number space must be big enough to accomedate 2w numbers. So the sequence number space must be at least twice as large as the window size.

P24: a.) True - if send 1,2,3 at +0,

then by +4 sender recieves Ack's

that reciever sent at +1 and goes to

window 4,5,6, to 5 sender recieves Acks

1,2,3 reciever sent at +2, these Acks

are outside its window.

b.) True-same scenario as part (a)

c.) True

and alternating bit protocol are equivalent. Window Size I diffuses the idea of out of order packets. Cumulative ACK is gust a normal Ack Since Window Size = 1.