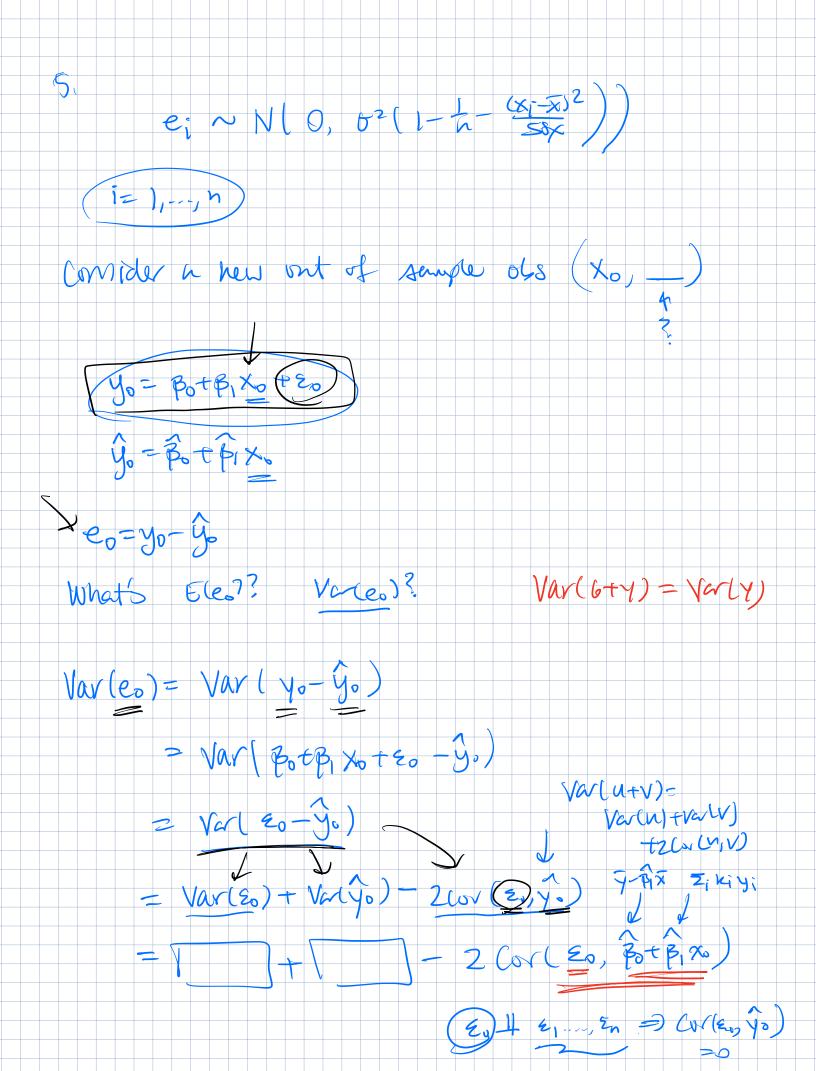
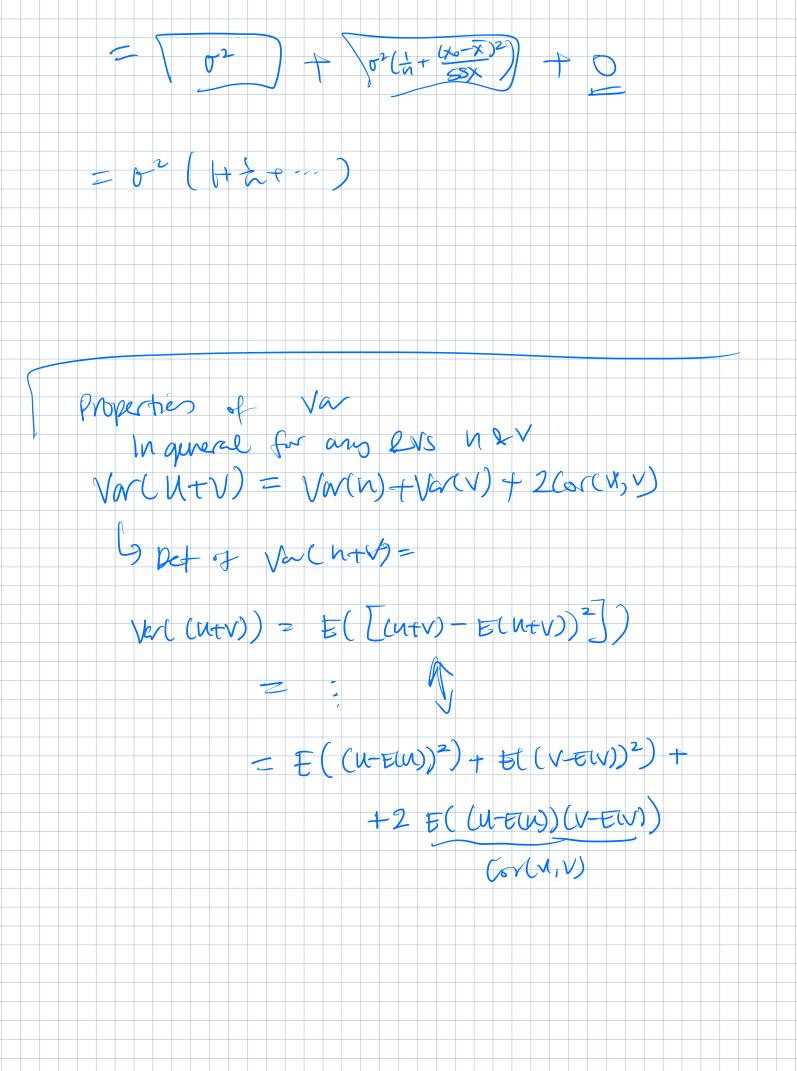
Office Hours 9/3/25 fred yi= BotBXITEI randon Bo Syandon random / fixed Cunknown Riced # W E(Bo) = Bo E(W) unhasedness t property of E6) extremes cestinats are random e.g. Bo o Bi E(Bo) = Bo E(B1)=B)

16. Bo is the expected sales for a district w? 51 pop. Zero. € 5 mm best gres fr this \$ 95%CL? 74312 m1 [-1.1852, 14.0476] From the real life contest on could magnie Some data lile this.





Mean response for a given x-level. E(Y) X=x0) + PotB1X0 Tunknown parameter CI for unknown parameters: pt. est & crit. Velue : SE Cpt est) Yo = Pot Bixo + + + 8E(Yo) 9: N (Bot B, xi, 02 (n + cxi x)2) Var(40)202(27 SSX) 0 V n (55)2 SE (90) = 6 JH + (x0x)2 SSX BOTBIXO I to 1 1 500 X

