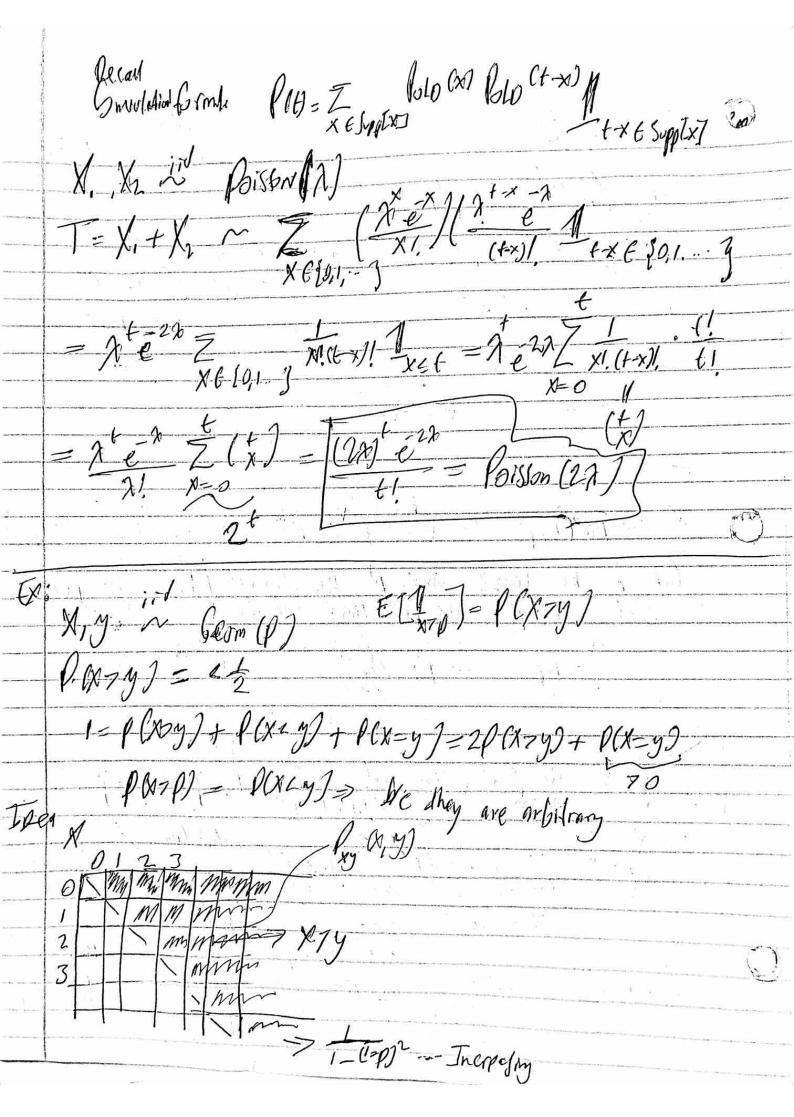
Aw Lecture 3 N. Lind Geor (P) J= Zi Xi ~ Meg Bir (1, P) - (++r-1)(1-p) for X ~ Bir(n,p) := (x) px(1-p) = (x) (h) (1-2)h-x Cet n be large and f be Small / lin p(x) = S.t n, p are revelopt Vig. 1 h=000 7=m => p= 2 facts out 3 2x lim h! I (1-1) ~ (1-2) - x dist lim 2 lim 1/2 l



Record Geometrie Series 3 X & LO,1,-9

STEP TO THE PROPERTY OF THE PARTY OF THE PAR

Note Z Can Nobe Representated & Z Expectation. X, y disconte E[X]= Z XPCX) Ros verythen avy Consider Elgon = Z gon p Cm7 C E[g(x,y)] - Z Z g(x,y) P(x,y) 0 9 Cx) 16 0 0 3 Z I ROS Z PONS PRICA) XER XEA 0 0 0 # b Rov Miltromed Coefficient. 0 Draw in first we capto coment 0 X1 ~ BM (n, P2) = (xx1) px, px2 N, = # Apple No - A Banenas 6-MAC X, +X = n C Let X:= [Xi]~ PX, Xi (X, Xi) 6 n=8 frats X, - 5 Spoke XI= 3 Banany

NM Clast EXT

= n! x!, x!Let of define mutinomial Oefficient. $(x, x_1)^3 = n!$ $(x, x_1)^3 = n!$ $(x, x_2)^3 = x!$ $(x, x_1)^3 = x!$ $(x, x_2)^3 = x!$ $(x, x_1)^3 = x!$ $(x, x_2)^3 = x!$ Mitipomial $(x, x_1)^3 = x^2 = x^3 = x^2 = x^3 = x$