Lecture 23

10.4

Random Sums

Thm: Wald's Identity

Let N be a non-negative integer valued RV.

Let X,, X2, ... be iid RV with finite mean

Let Xi IL N

$$\circ S_N = X_1 + \dots + X_N = \sum_{i=1}^N X_i$$

Pcf

so E(SN): E(E(SNN)): E(NN): E(N) M