hitting time of level x. Tx = inf (t: Bt=x). But is continuous = (if o <x < y => Tx < Ty). Tx 18 finite [since simple symmetric vardom waters recurrent As BAN B continuous, when Bt = x. There I a Tx st. hitting x > P(Bt3x) = P(Bt3x, Tx st) = P(Bt = X | Tx st) . P(Tx st). B 1.B2+5-B270 | BZ=X) = P (BS 70 | BZ=X) 7x = 2. = P(N(0.5) >0)==

Sto sun of LNt J variables i'd. each with variance 1 (x,00) - x,000 - ind . P(x,000 - 1) = 1) En & Karon with N => Var(St) \$ t Slides 20. QA(=)= = = = = = = + (==) + = On (==) LHS & N [Qt(X) - Qt-b(X)]. -> at Pt(X). N[() - Q (())] RMS = 2 32 PtX = \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2}) - Q\frac{1}{2} (\frac{1}{2} \frac{1})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2} \frac{1}{2})] - \frac{1}{2} [Q\frac{1}{2} (\frac{1}{2})] - \frac{1}{2} [Q\frac{1} (\frac{1}{2})] - \frac{1} Q共(岩) $\frac{n}{N} \rightarrow t$ $\frac{\kappa}{\sqrt{N}} \rightarrow \chi$ $(N \rightarrow \infty)$ = density Prix) at time at sectisfying of Prix= 10 Prix).