proof of Inverse transform sampling

(psiedo) inverse. Let Un Uniform (0,1).

F-1 (v) = ins{ x | F(x) > v3

wTS P(F-1(U) &x) = F(x)

P(F-1(U) (x) = P(U (F(x))) by applying the

= F(x) be cause P(U&K)=K

For Uniform(0,1)