$f_{\gamma}(y)$ $f_{\gamma}(y)$

 $Y = tan(\theta)$

 $\chi \sim exp(\chi)$ LXJ: floor of X, an Meger X-LX1=Y: the part of X that is lost when doing 51000. Y & [0,1) X(w)=3.8741/ LX(w)]=3 X - LXI = 0.87 - 41x(w)=4, X-LX]=4-4=0 let REZIT P(LX]=R)(=P(REXKHI)) = Sktr Sx(x)dx $= F_{\chi}(kH) - F_{\chi}(h)$

P(LXJ=M, Y Lt) = P(MEXLMH, X-LXJEt) X Mt/ R X = p(m= X = m+t) P(YEt) = ST P(LXI=M, YET)