=. p_{k-1} : $\frac{1}{2}y_{k-1} - \frac{1}{2}y_{k}(y_{k}) = \frac{1}{2}y_{k}(y_{k}) - \frac{1}{2}y_{k$

e.: 8= - 1/n(5,...5n) = 4+4++-+ Vk

:. hip) = 9101) * 9102) ... * 01010

= J.J. an east east. 4) ea(2-2) doldy -dy

: 12-71,>0 13-71,20 ... 16-9/4-1>0 => 13-9/4-1>1-29,20

:. hur) = ane-an Ji-Jo dy,...dy,

= 0n e-ar J. J. J. Side ... dyn = ane-ar J. J. 21 chy ... dyn

 $= \cdots = \alpha_n e^{-\alpha n} \frac{x_{n-1}}{(n-1)}$

故 下分布抽样为式市的 (=-前从(s,~s,)

(3). proof: & yk=xk => xk=±Nyk= | The, xk>0 Siye) (1/yk) = \frac{5}{100} f(xk) (1/xk)

\$ 1,- x2cm 12-x2cm, 2)

fritz = fri(y) x frz(y)

 $= \int_{0}^{+\infty} \frac{1}{2^{\frac{m}{2}} \sqrt{\frac{m}{2}}} y^{\frac{m}{2} - 1} e^{-\frac{y}{2}} \frac{1}{2^{\frac{m}{2}} \sqrt{\frac{n}{2}}} (z - y)^{\frac{n}{2} - 1} e^{-\frac{y}{2}} dy$

= 2 12 77 77 Jo y 2 16-10 2 1

= 2 1- 2) 775) Jo (=) 1- 2) 2-1 d(=)

= \frac{\frac{\text{mth}}{2^{\text{mth}}} \ e^{\frac{2}{2}} \ \tau_{\text{T}} \text{T(\frac{\text{T}}{2})T(\frac{\text{T}}{2})}{\text{T(\text{mth})}} \ \tag{T(\text{mth})T(\frac{\text{T}}{2})}

 $= \frac{1}{2^{\frac{m+n}{2}} \left[\frac{m+n}{2} \right]} 2^{\frac{m+n}{2}} \rho^{-\frac{2}{2}}$

RP Tithe X'(min) to in ykn X2(n)

上性はます, 10(至)で11-至)で10(型)=(で、型) = <u>「(で) て(で) て(き)</u> <u>「(で) て(で) で</u>(で、型)