

f(n) = C fo x>, 1 p= 25 B(x) = c f g -15 dy - Convergs  $C(x^1) = \int \alpha^2 C Jx = C \int \alpha^{-0.5} Jx^4 Ji \text{ using}$ 6(x)=1 by 8(en) <1 67-8100 07 (8-03) P(X-100) 0-99 C(Q) 20.00 x 0 + con 9 x + con 9 9 > 2/ p(x=1n100)=pp(x=0)=1-p 8(x) = pla100 + (1-p) · 0 = 1 p= 1 B(e-") = pe-li100+(1-p).1 = P x 1 + (1-p) = 1- 99 p

(6)  $P(1x-y) < \frac{d}{3} = \frac{1}{d^2} \int_{0}^{2\pi} \frac{1}{3} \int_{0}^{2\pi} \frac{1}$ P= 1- 2=1 3 3 (B) Give A, .. An independent.  $P(A;^{c}) = \frac{n}{n} (1 - P(A;)) < e^{\sum P(A;^{c})}$ 1-95e-2-1> TT (1-n;) 5TTE-4; (10) let x >, 0 with CDF F(x)  $f(x) = \int P(x > x) dx = \int (1 - F(x)) dx$ (w) = / 1 dx X (w) = / 1 [0,x(w)] (x) J x  $G(x) = \iint_{\mathbb{R}^{2}} f(x,x(\omega))(x) dx dR(\omega) = \iint_{\mathbb{R}^{2}} f(x,x(\omega))(x) dx dx$   $G(x) = \iint_{\mathbb{R}^{2}} f(x,x(\omega))(x) dx dR(\omega) = \iint_{\mathbb{R}^{2}} f(x,x(\omega))(x) dx$