(a) Falble	des	Partiel Probes	The Diste Y =	Z Xu - nm
grands	window		Cestrale	5 Vn -
- /0	15 5			
		. 0 ()	5.7	
		Be (p).		(n-p)-
17 19		B (n,p)	$E(x) = n\rho$ $V(x) = u$	p(1-p).
•	Paisson: X~	Ρ(λ)	$E(x) = \lambda \qquad \forall (x) = \lambda$	λ -
6	Geore trique 1 X ~	g (p)	$\in (x) = \frac{1}{\rho}  V(x) =$	7 + P - P <sup>2</sup>
	Viforne 2 X ~	U ((a,b))	$\rho(\alpha) = 1$ $b-a$	
		= da+b \ \	$1/(x) = \frac{b-a}{(b-a)^2}$	
•		2	72 _1	$\frac{1}{2}(x-m)^2$
	Normale/Gassienne: X~	N (m, 52)	$\rho(\alpha) = \underline{\qquad} e$	
	E(x)	$V(x)=\sigma^2$	ν 2πσ2	
			2 ,	8-2
0	Gamma: X~	Ga (2, B)	$\rho(z) = \frac{\beta^2}{\Gamma(2)} z z^{-1} z$	
	€ (x	$)=\frac{\beta}{2}$ $V()$	κ) = β	
			n	
	Chi 2: 4=	S Xi ~ 7 2	Pn (y)= 30 C	
	T			
Fenc	ction de veportition:	F (2e) = P	$(X < 2) = \int_{-\infty}^{2} \rho(u) du$	$\Rightarrow F'(x) = \rho(x)$
Fone	ction generative:			e
• For	ction coractéristique	b (u) =	E ( ioX)	
Fonction coractéristique: $\phi_{\times}(u) = E(e^{i\omega \times})$ .				
Changement de veriable: $Y = g(x)$ .				
	· Discrête : F	(x= K) = P(4	'= g(u))-	
			Py (b) = Px (g-7	(4)) (dx)
	· Continue, a biject	ive I wor leave :	Car a late	dy
				4 ()
•	· Continue, g non	orjective.	que $F(x)$ , $O_{X}(U)$	ov $\phi_{x}(v)$ .
				2 ( )
Indi	pendance: P(X =	$y) = \rho(x) \rho(y) -$	X 11 4 => 2(x	$() \parallel \beta(q)$ .

