





Grandi ratilizationes
Continuous Plandon Variables.
let x, ~ Geom(p) = (1-p)xp1x80,13
$F_{x,(x)} = P(x, \leq x) = 1 - P(x, >x)$ $= 1 - (1-p)^{x}$
Let n Benovili expensents occur between each time period of x sale
n n
Let X, be the working time. Supp [Xn].
Pxn(x)=(1-p)^x p 1 x = 20, \frac{1}{2}, \frac{2}{2}, \frac{1}{2}, \frac{1}{2}
$= (\times) = (\times$
$F_{X_n}(x) = 1 - (1 - p)^n x$ $= 1 - (1 - p)^n x$
Let n-> 00, p-70 s.+ 1
The section .
$P_{X_{\infty}} = \lim_{n \to \infty} P_{X_{n}}(X) = \left(\lim_{n \to \infty} \left(1 - \frac{\lambda}{n}\right)^{n}\right)^{x} \lim_{n \to \infty} \frac{\lambda}{n} = 0 + X.$
$f_{X,ap} = \lim_{n \to \infty} f_{X_n}(x) = \lim_{n \to \infty} \left(\frac{1 - \frac{1}{2}}{n} \right)^n$
$f_{X_{ab}} = \lim_{n \to \infty} f_{X_n}(x) = \lim_{n \to \infty} \left(\lim_{n \to$
Sporx 7 - (1-e-++) 1/x > 0
$Spp(x_{-}) = [0, \infty) \leftarrow continuous.$ $Z P_{x_{-}}(x) = 0 \neq 1 \qquad -J_{3} lim F(x_{-}) = 0$
2 Supplied => > how a DNE
Supplied
= dx [Fex] = x e x > +x20,
- Krexp(x)
Two Sigma Proprietary and Confidential