Fordelningsfunlation Fx (e) = P(X \le x \rightarrow fx (a) da

(= P(x \text{x}) fs, honting \in \text{value}) Alltsa: $F_X'(x) = f_X(x)$ Som förnt! P(X>x)=1-P(X=x)=1-F(x) Exampel' x kontinnerlig s.v. Y=ex Fy=1 Fy(y)=P((Y = x)=0 for x = 0 ty 1/20 For y 70', Fyly)=P(Y=y)=P(e+5y)= = P(X < Iny) = Fx (Iny)

 $f_{\gamma}(y) = f_{\gamma}'(y) = \frac{d}{dy} f_{\chi}(h_{\gamma}) = \frac{d}{$ Alltsa! $f_{Y}(y) = 0$ $f_{X}(x) = f_{X}(x)$ $f_{Y}(y) = 0$ $f_{Y}(x) = f_{X}(x)$ 17:01 Kvantiler (1)=1-1xxx11-1=(xxx)19 OZYP(X)XX)=X Det vill seja - (1-Fx(xx) 722 x)9=(y)4 (()) = (()) = (()) =

Exempli:

$$X \in \mathbb{E}_{xp}(\lambda)$$

 $p(X > x) = e^{-\lambda x}$
 $All + sa:$
 $e^{-\lambda x} = \lambda$

$$5 lh \times d = -\frac{1}{\lambda} ln \times$$