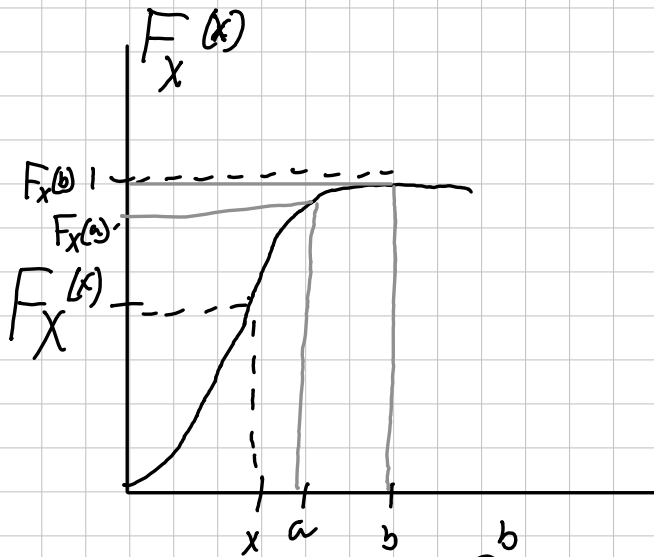


$F_X(x): \text{cdf}$

cummulative density function



$$F_X(x) = P(X \leq x) = \int_{-\infty}^x f(t) dt$$

Svagt monotont stigende

$$\lim_{x \rightarrow \infty} F_X(x) = 1$$

$$P(X \in [a, b]) = \int_a^b f_X(x) dx = F_X(b) - F_X(a)$$