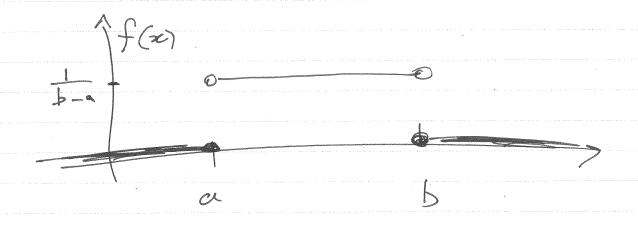
$$P(X \leq x) = \int_{-\infty}^{x} f_{x}(t)dt$$

flede Interpet fx(t)dt

 $P\left(t \in X \leq t + dt\right)$

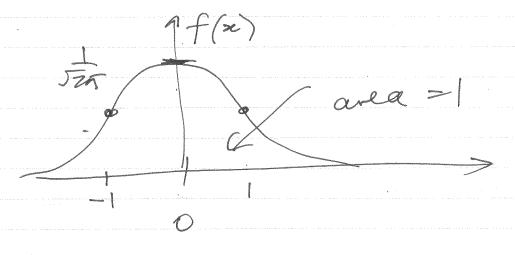


f(n)

 $E(x) = \int_{\infty}^{\infty} x f(x) dx$ $P(x \in (x, x + dx))$

$$X$$
 discrete: $E[g(X) = \sum_{n} g(n) f(X=n)$

$$X$$
 cfs: $E[g(x) = \int_{-\infty}^{\infty} g(x)f_{x}(u)dn$



$$f_{\gamma}(y) = \frac{1}{2}f_{\chi}(\frac{y}{2})$$

