$$\begin{split} & ||f(X \in A)| = \int ||f(X \in A)|| = \int_A f_X(H) dA \\ & ||f(A)|| = \int_A ||f(A)|| ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| = \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| + \int_A ||f(A)|| + \int_A ||f(A)|| + \int_A ||f(A)|| \\ & ||f(A)|| + \int_A |f(A)|| +$$

$$EX = \int_{-\infty}^{\infty} f y dx = \int_{-\infty}^{\infty} x d f_{x}(x)$$
where you is helder-trunces
$$F = \int_{-\infty}^{\infty} f y dx = \int_{-\infty}^{\infty} x d f_{x}(x)$$

$$X = \int_{-\infty}^{\infty} f x d f_{x}(x) dx = \int_{-\infty}^{\infty} f x d f_{x}(x) dx$$