Example (-12
$$Y = X - (2 - X) = 2X - 2$$

 $|EY| = |E[2X - 2] = 2|EX - 2 = 2 \cdot 1 - 2 = 0$
 $|VarY| = |Var[2X - 2] = 2^{2} |Var(X) = 4 \cdot \frac{1}{2} = 2$.
 $|P(x, < X \le x_{2})| = \int_{-\infty}^{x_{2}} f_{X}(x) dx$
 $|x_{1}|_{X_{2}}$
 $|x_{2}|_{X_{2}}$
 $|x_{3}|_{X_{2}}$
 $|x_{4}|_{X_{2}}$

$$P(x_i < X \leq x_i) = P(X \leq x_i) - P(X \leq x_i) = P(X \leq x_i) - P(X \leq x_i) = P(X \leq x_i)$$