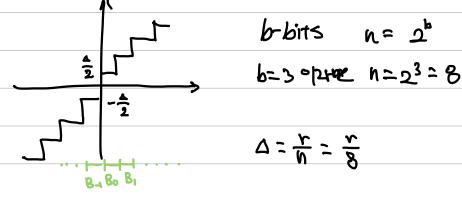
#### -Conditional CDF

#### -(andittonal PDF

$$f_{KIB}(x) = \frac{dF_{KIB}(x)}{dx} = \frac{f_{K}(x)}{PCBJ} \times CB$$

## - Y: uniform (=1 , 12)



$$\mathcal{J}_{\chi}(x) = \begin{cases} \frac{1}{L} & -\frac{L}{L} \leqslant x < \frac{L}{L} \\ 0 & 0, w. \end{cases}$$

$$PCB_{4}I = \int_{4\Delta}^{CLeD\Delta} \frac{1}{r} dx = \frac{\Delta}{r} = \frac{1}{r} = \frac{1}{8}$$

$$f_{X|BL}(x) = f_{x}(x) \qquad x \in B_{x} = \begin{cases} \frac{1}{\Delta} & \text{id} \leq x < (i + 1) = 1 \\ P[B_{x}] & \text{id} \leq x < (i + 1) = 1 \\ 0 & \text{id} \leq x < (i + 1) = 1 \end{cases}$$

### Total Probability

Austrian Bi, ..., Dn on MAMM

Conditional Expected Value

$$E[X/B] = \int_{-\infty}^{\infty} Ann \, e^{X/B} \, cx) \, gx$$

#### Conditional Variance

### Conditional Joint PMF

$$P_{X,Y1B}(X,Y) = P(X=x,Y=Y1B]$$
=  $P_{X,Y}(X,Y) = P(X=x,Y=Y1B)$ 
 $P(X=x,Y=Y1B) = P(X=x,Y=Y1B)$ 
 $P(X=x,Y=Y1B) = P(X=x,Y=Y1B)$ 
 $P(X=x,Y=Y1B) = P(X=x,Y=Y1B)$ 

# Conditional Expected Unlue

## Conditioning by RV



PY(4) . Px14 (x14) = Px,4 O4,4)

$$f_{X(Y}(x|Y) = \frac{f_{X(Y)}(x,Y)}{f_{Y}(Y)}$$