Y =
$$\mu + \sigma X$$

$$F(Y) = P(Y \leq y)$$

$$= P(\mu + \sigma X \leq y)$$

$$= P(\sigma X \leq y - A)$$

$$= P(X \leq \frac{y - A}{\sigma})$$

w that
$$X$$
 and Y have the same distribution (unconditionally, not just when given Z).

$$P \left(\begin{array}{c} X = q \\ \end{array} \right)$$

$$=\sum_{z}P(X=\alpha|Z=z)P(Z=z)$$

$$= \sum_{z} P(Y=a|Z=z)P(Z=z)$$

$$= \bigcap_{i=1}^{n} \left(\bigcap_{j=1}^{n} = u_{i,j} \right)$$

(b) If
$$X \sim HGeometric, h, n)$$
, what is the distribution of $n \sim X$?

$$P(X \mid X \in B) = \frac{P(X \in C \cap X \in B)}{P(X \in B)} = \frac{P(X \in$$

b)
$$X \sim H G_{EVM}(\omega,b,n)$$

THE PMF of X IS $P(X=k) = \frac{\binom{\omega}{k}\binom{b}{n-k}}{\binom{\omega+b}{n}}$