Probability Formula Sheet *****

Axioms.

Assistm 11 0.45 P[A]

It states that the probability (mass) is nonnegative

PISI = 1

It states that there is a fixed total amount of probability (mass). namely I unit.

If $A \cap B = \emptyset$, then $P[A \cup B] = P[A] + P[B]$ It states that the total probability (mass) in two disjoint objects is the sum of the individual probabilities (masses).

Aprilo m. 4c

If $A_1, A_2, ...$ is a sequence of events such that $A_1 \cap A_1 =$ Ø for all i w i then

$$P\left[\bigcup_{k=1}^{\infty} A_k\right] = \sum_{k=1}^{\infty} P\left[A_k\right]$$

Corollaries						
P[A]=1-P[A]	1=P[S]= P[A']+P[A] P[Ø]=0					
P[A]≤1						
$P[A \cup B] = P[A] + P[B]$ - $P[A \cap B]$	If A = B, then P[A]SP[B]					
$P[A \cup B] \le P[A] + P[B]$						

Computing probabilities by counting methods

Sampling with Replacement and with Ordering:

Number of distinct ordered k-tuples = n*

Sampling without Replacement and with Ordering:

Number of distinct ordered k-tuples = n(n-1).... (n-k+1)

Permutations of a Distinct Objects

Number of permutations of n objects = $n(n-1) \dots (2)(1) \land n!$ (We cefer to relias a factorial 3

Sampling without Replacement and without Ordering

$$C_k^n k! = n(n-1) \dots (n-k+1)$$

$$C_k^n = \frac{n(n-1)\dots(n-k+1)}{k!} = \frac{n!}{k!(n-k)!} d_i\binom{n}{k}$$

Sampling with Replacement and without Ordering

$$\binom{n-1+k}{k} = \binom{n-1+k}{n-1}$$

Conditional probability

$$P[A|B] = \frac{P[A \cap B]}{P[B]}$$

Addition Rule:

$$P[A \cup B] = P[A] + P[B] - P[A \cap B]$$

If A & B are mutually exclusive then; $P[A \cup B] = P[A] + P[B]$

Multiplication Rule:

$$P[A \cap B] = P[A]P[B]A] = P[B]P[A]b]$$

If A & B are independent then: $P[A \cap B] = P[A]P[B]$

Probability Laws

Total probability law:

$$P[A] = P[A \cap B_1] + P[A \cap B_2] + \cdots + P[A \cap B_n] \cap R$$

$$P[A] = P[A|B_1]P[B_1] + P[A|B_2]P[B_2] + \cdots + P[A|B_n]P[B_n] \text{ OR }$$

 $P[A] = P[A|B]P[B] + P[A|B^*]P[B^*]$

Bayes' Law

$$\begin{split} P[B_{i}|A] &= \frac{P[B_{i} \cap A]}{P[A]} = \frac{P[B_{i} \cap A]}{P[A]} = P[A|B_{i}] \frac{P[B_{i}]}{P[A]} \\ &= \frac{P[A|B_{i}]P[B_{i}]}{\sum_{k=1}^{n} P[A|B_{k}]P[B_{k}]} \end{split}$$

Probability definition:

A & 8 are mutually exclusive if $[A \cap B] = 0$

A & B are independent if P[A|B] = P[A] & P[B|A] = P[B] & $P[A \cap B] = P[A]P[B]$

Discrete Probability Distributions

Expected value or mean of a discrete random variable X:

$$m_x = E[X] = \sum_{x \in \mathcal{I}_X} x p_x(x) = \sum_x x_x p_x(x_x)$$

Variance of the random variable X

$$\sigma_x^2 = VAR[X] = E[(X - m_X)^2] = \sum_k (x_k - m_X)^2 p_X(x_k)$$

= $E[X^2] - m_X^2$

Standard deviation of the random variable X:



×	X counts	$P_{\mathbf{x}}$ $P_{\mathbf{x}}=1\cdot p, \ p_{\mathbf{x}}=p$ $\binom{n}{k}p^{k}(1-p)^{n-k}$		0,1 0,1		E[X]		VAR[X] P(1-p) np(1-p)
Bernoulli	Equals one if the event A occurs, and zero otherwise.							
Binomial	Numbers of successes in fixed n trials							
Geometric	Number of trials up through fist success	$p(1-p)^k$	$p(1-p)^{k-1}$	0, 1,	1, 2,	1 - p	1 2	$\frac{1-p}{p^2}$
Uniform	outcomes are equally likely	1 L		1,2,t		L+1 2		$\frac{L^2-1}{12}$
Poisson	number of events that occur in fixed time period	$\frac{a^k}{k!}e^{-a}, a > 0$		0,1,2		06		a

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Daniel Zwillinger

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