

Cheatography

MATH1901_Final_CS Cheat Sheet

by s.sutherland697 via cheatography.com/50365/cs/13907/

Sets		Probability/Statistics		Boolean Algebra	
\in	"Is an element of..."	Permutation $P(n,r) = n!/(n-r)!$	ns	$+$	$= V$
\cup	Union	Combinations $C(n,r) = n!/(n-r)!r!$	Sample Space	\cdot	$= \wedge$
\cap	Intersection		Set of all possible outcomes	T	$= 1$
\neq	"Is NOT a subset of..."			F	$= 0$
\subset	"Is proper subset of..." (some or all)	μ (Mean) Sum of set divided by length of set		(A+B)	Parallel Circuit
\subseteq	"Is a subset of..." (some)			(A·B)	Series Circuit
\emptyset	Empty Set	σ^2 (Variance) Calculate the mean For each number, subtract the mean and square the result Calculate the average of the squared differences, or sum up the squared differences and divide by N, the number of values.		Probability/Statistics	
\bar{A}	Complement	σ (Standard Deviation) Square Root of Variance (σ^2)		b= Binomial Probability $b(x; n, P) = nCx Px (1 - P)^{(n-x)}$	
Set Builder Not.	{formula for elements restrictions}			n= number of trials	
Logic				x= number of successes	
\wedge	Conjunction (AND)			P= probability of success	
\vee	Disjunction (OR)			Binomial Distribution $\mu = n \cdot P$	
\sim	Negation (NOT)			(cont'd) $\sigma^2 = n \cdot P \cdot (1-P)$	
\rightarrow	"If x, THEN y"				
\leftrightarrow	True with same value				

C

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