Cheatography

MATH1901_Final_CS Cheat Sheet by s.sutherland697 via cheatography.com/50365/cs/13907/

∈ "Is an element of"	
U Union	
∩ Intersection	
⊄ "Is NOT a subset of	
⊂ "Is proper subset of or all)	" (some
⊆ "Is a subset of" (see	ome)
Ø Empty Set	
A Complement	
Set Builder{formula for elementNot.restrictions}	ts

Logic	
٨	Conjunction (AND)

- v Disjunction (OR)
- ~ Negation (NOT)
- \rightarrow "If x, THEN y"
- ↔ True with same value



By s.sutherland697

cheatography.com/ssutherland697/

Probability/Statistics		
Permutatio ns	P(n,r) = n!/((n-r)!)	
Combinati ons	C(n,r) = n!/(n-r)!r!	
Sample Space	Set of all possible outcomes	
µ (Mean)	Sum of set divided by length of set	
σ² (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.	
σ (Standard Deviation)	Square Root of Variance (σ^2)	

Boolean Algebra		
+	= V	
	= Λ	
Т	= 1	
F	= 0	
(A+B)	Parallel Circuit	
(A·B)	Series Circuit	

Probability/Statistics			
b= Binomial Probability	$b(x; n, P) = nCx Px (1 - P)^{(n - x)}$		
n= number of trials			
x= number of successes			
P= probability of success			
Binomial Distribution	$\mu = n \cdot P$		
(cont'd)	$\sigma^{2} = n \cdot P \cdot (1 - P)$		

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