Cheatography

Math 1901 Final Cheat Sheet

Negation

Т

by SirUmbreon77 via cheatography.com/50420/cs/13917/

Sets	
€	"Is an element of"
U	Union: combine elements of A and B
Λ	Intersection: elements that appear in both sets
⊄	Is not a subset of
⊆	Subset: all elements in A are in B
C	Proper Subset : A is a proper subset of B iff A is a subset of B and B is not equal to A
Ø	Empty set
{}	Empty set
₩	Not an empty set
Ā	Compliment: the set consisting of all element in U that are not in A
Set builder notation	{formula for elements restrictions}

Disjuncti	ion		
р	q	pVq	
Т	Т	Т	
Т	F	Т	
F	Т	Т	
F	F	F	

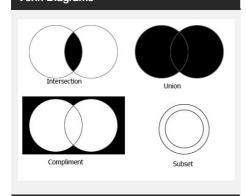
F

Probability
Perms
Combs
Sample Space
Mean
Median

(Standard Deviation)

Probability/3	olais
Perms	P(n,r) = n!/((n-r)!)
Combs	C(n,r) = n!/(n-r)!r!
Sample Space	Set of all possible outcomes
Mean	Sum of set divided by length of set
Median	Middle term of an organized
	Take the average of two terms if there is more than one middle term
Mode	The number that occurs most in a 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.

\/	D:
Venn	Diagrams



Other Statement	5
NAND	Not And: Negation of And
NOR	Not Or: Negation of OR
EOR	Exclusive Or: exactly one of p and q is true
Conditional Statement →	If p then q
Biconditional Statement ↔	p iff (if and only if) q

Bool	Boolean Tables			
Α	В	A + B	AxB	
1	1	1	1	
1	0	1	0	
0	1	1	0	
0	0	0	0	

Probability Formula	s
b= Binomial Probability	b(x; n, P) = nCx Px (1 - P)
n= number of trials	
x= number of succe	esses
P= probability of su	ccess
Binomial Distri- bution	μ = n·P

Square Root of Variance (σ^2)

 $\sigma^2 = n \cdot P \cdot (1-P)$

Conjunction			
p	q	р∧ q	
Т	Т	Т	
Т	F	F	
F	Т	F	
F	F	F	

Circuits	
	Open: No electricity passes OOOCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC

Logic Cir	cuits
	A
	NOT

Published 12th December, 2017. Last updated 12th December, 2017. Page 1 of 1.

Sponsored by Readable.com Measure your website readability! https://readable.com

By SirUmbreon77

cheatography.com/sirumbreon77/