

Homework 1 Cheat Sheet

Friday, April 6th, 2007

Truth Tables											
Logic Operators								Bit Operations			
p	q	$\neg q$	$p \wedge q$	$p \vee q$	$p \oplus q$	$p \rightarrow q$	$p \leftrightarrow q$	x	y	$x \wedge y$	$x \vee y$
T	T	F	T	T	F	T	T	1	1	1	1
T	F	T	F	T	T	F	F	1	0	0	1
F	T	F	F	T	T	T	F	0	1	0	1
F	F	T	F	F	F	T	T	0	0	0	0

Simple Equivalences				
Identity:	Domination:	Idempotent:	Negation:	Implication:
$p \wedge T \leftrightarrow p$ $p \vee F \leftrightarrow p$	$p \vee T \leftrightarrow T$ $p \wedge F \leftrightarrow F$	$p \vee p \leftrightarrow p$ $p \wedge p \leftrightarrow p$	$\neg(\neg p) \leftrightarrow p$ $p \vee \neg p \leftrightarrow T$ $p \wedge \neg p \leftrightarrow F$	$(p \rightarrow q) \leftrightarrow (\neg p \vee q)$

Equivalence Laws
Commutative: $p \vee q \leftrightarrow q \vee p$ $p \wedge q \leftrightarrow q \wedge p$
Associative: $(p \vee q) \vee r \leftrightarrow p \vee (q \vee r)$ $(p \wedge q) \wedge r \leftrightarrow p \wedge (q \wedge r)$
De Morgan's: $\neg(p \wedge q) \leftrightarrow \neg p \vee \neg q$ $\neg(p \vee q) \leftrightarrow \neg p \wedge \neg q$
Distributive: $p \vee (q \wedge r) \leftrightarrow (p \vee q) \wedge (p \vee r)$ $p \wedge (q \vee r) \leftrightarrow (p \wedge q) \vee (p \wedge r)$

$\mathbb{Z}$: Integers $(\dots, -1, 0, 1, \dots)$
 $\mathbb{N}$: Natural Numbers $(1, 2, 3, \dots)$
 $\mathbb{Q}$: Rational Numbers
 $(\frac{p}{q} \text{ where } p, q \in \mathbb{Z}, q \neq 0)$
 $\mathbb{R}$: Real Numbers
 $(\text{rational \& irrational numbers})$

Quantifications	
Statement: $\forall x \forall y P(x, y) \leftrightarrow \forall y \forall x P(x, y)$	
True if: $P(x, y)$ is true for every pair x, y .	
False if: There exists a pair x, y for which $P(x, y)$ is false.	
Statement: $\forall x \exists y P(x, y)$	
True if: For every x there exists a y for which $P(x, y)$ is true.	
False if: There exists an x such that $P(x, y)$ is false for every y .	
Statement: $\exists x \forall y P(x, y)$	
True if: There exists an x for which $P(x, y)$ is true for every y .	
False if: For every x , there exists a y for which $P(x, y)$ is false.	
Statement: $\exists x \exists y P(x, y) \leftrightarrow \exists y \exists x P(x, y)$	
True if: There exists a pair x, y for which $P(x, y)$ is true.	
False if: $P(x, y)$ is false for every pair x, y .	
Statement: $\neg \exists x P(x) \leftrightarrow \forall x \neg P(x)$	
True if: $P(x)$ is false for every x .	
False if: There exists an x for which $P(x)$ is true.	
Statement: $\neg \forall x P(x) \leftrightarrow \exists x \neg P(x)$	
True if: There exists an x for which $P(x)$ is false.	
False if: $P(x)$ is true for every x .	

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Sir James Augustus Henry Murray



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