

# Homework 1 Cheat Sheet

Friday, April 6<sup>th</sup>, 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
<b>Commutative:</b> $p \vee q \leftrightarrow q \vee p$ $p \wedge q \leftrightarrow q \wedge p$
<b>Associative:</b> $(p \vee q) \vee r \leftrightarrow p \vee (q \vee r)$ $(p \wedge q) \wedge r \leftrightarrow p \wedge (q \wedge r)$
<b>De Morgan's:</b> $\neg(p \wedge q) \leftrightarrow \neg p \vee \neg q$ $\neg(p \vee q) \leftrightarrow \neg p \wedge \neg q$
<b>Distributive:</b> $p \vee (q \wedge r) \leftrightarrow (p \vee q) \wedge (p \vee r)$ $p \wedge (q \vee r) \leftrightarrow (p \wedge q) \vee (p \wedge r)$

$\mathbb{Z}$ : 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  
 (rational & irrational numbers)

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

# Mathematics 110 Curtin Cheat Sheet

**Michael Hoelscher**



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