Hour: 1st

Name: Julia Wilkins

Date: 9/13/10

Honors Geometry: Truth Tables

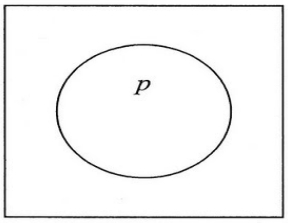
Let p = any statement
q = any statement

$\rightarrow$ = implies
$\leftrightarrow$ = if and only if

t=both true f=both false

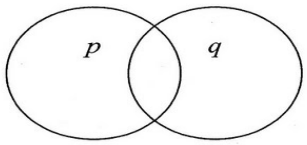
NOT
(negation)

p	$\sim p$
T	F
F	T



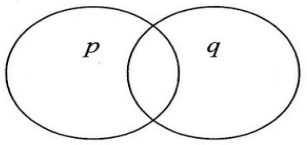
AND $\wedge$
(conjunction)

p	q	p and q ($p \wedge q$)
T	T	T
T	F	F
F	T	F
F	F	F



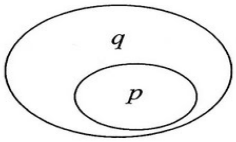
OR (inclusive) $\vee$
(disjunction)

p	q	p or q
T	T	T
T	F	T
F	T	T
F	F	F



CONDITIONAL $\rightarrow$
(implication)

p	q	$p \rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T



BICONDITIONAL
(equivalence)

p	q	$p \leftrightarrow q$
T	T	T
T	F	F
F	T	F
F	F	T