$\begin{array}{c} 6/2/2010 \\ \mathrm{Quiz}\ \#2 \end{array}$

Name:	(Key)	

Show all work clearly and in order. Please box your answers. 10 minutes.

1. Verify the following logical equivalence:

$$(p \land \neg q) \lor p \equiv p$$

P	9	79	PN72	(PN79)VP			
T	Т	F	F	Т			
T	F	T	T	T			
F	T	F	FTF	F			
F	F	T	F	F			
F F F F							
truth tables are the same. Hence, (

(i.e., (prog) vp) = p is a tautology)

2. Use truth tables to verify the validity of the following argument form:

$$p$$
 $p o q$
 $\neg q \lor r$

	Primires	conclusion
P T T T T T F F F F F F F F F F F F F F	P→9 79.VI T F T T T T T T T T T T T T T T T T T T	TE Critical row (only one), and the conclusion is true. There, the argument form is valid. T T T T T