NAME: Solutions

This quiz contains 6 problems worth 30 points. You may not use books, notes, or a calculator. You have 30 minutes to take the quiz.

1. (2 points) Given that p is true, q is true, and r is false, determine the truth value of the proposition $\neg p \lor \neg (q \land r)$

$$\begin{bmatrix} (\neg T) \vee \neg (\neg AF) \end{bmatrix} = \begin{bmatrix} F \vee GF \end{bmatrix} = \begin{bmatrix} F \vee T \end{bmatrix} = \begin{bmatrix} F \vee T \end{bmatrix}$$

2. (4 points) Write the truth table for the proposition $(p \lor q) \land \neg p$

P	9	PVq	7 P	(PVg) A	1 _P
T	T	+	F	F	
T	F	T	F	F	
F	T	T	T	T	
#	F	F	T	F	
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- 4. (3 points each) Let p be the proposition If x > 1, then x is not a solution.
 - (a) State the converse of p.

(b) State the contrapositive of p.