

QUIZ #1 – MATH 2200
SPRING 2018

1. Fill out the truth table for the compound proposition $((p \vee q) \wedge r) \rightarrow (r \vee \neg p)$. Make sure to show work if you want partial credit. (10 points)

p	q	r	$((p \vee q) \wedge r) \rightarrow (r \vee \neg p)$

Problem #2 is on the other side

2. Consider the following propositions:

p : It is hot outside.

q : I buy ice cream.

r : It is raining.

(a) Translate the statement

I buy ice cream whenever it is both hot outside and it not is raining.
into a compound proposition using p, q, r and logical operators. (5 points)

(b) Translate the compound proposition

$$q \rightarrow (\neg p \wedge r)$$

into English. (5 points)