

MATH 270
SUMMER 2007
QUIZ 1

1. Use truth tables to show that the following propositional forms are equivalent.
 - a) (5 pt) $P \wedge (Q \vee R)$ is equivalent to $(P \wedge Q) \vee (P \wedge R)$.
 - b) (5 pt) $P \vee (Q \wedge R)$ is equivalent to $(P \vee Q) \wedge (P \vee R)$.

2. (5 pt) Give an example of a contradiction (and explain why it is a contradiction). Also give an example of a tautology.