
March 21, 2018

Score _____

1. (6 points) Use truth tables to show that $\sim(p \wedge q)$ is logically equivalent to $\sim p \vee \sim q$.
2. (1 point) The problem above establishes one of DeMorgan's two laws. State the other one of DeMorgan's laws.
3. (3 points) Use DeMorgan's laws to negate each statement.
 - (a) He does not have a car, and he does not have a bike.
 - (b) She eats in the cafeteria, or she eats at Taco Bell.