

Math 112 - Quiz 5

February 28, 2019

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (2 points) Let p be the statement “Sophie has been arrested” and let q be the statement “Bubba has not been arrested.” Write each statement in symbolic form.
 - (a) If Sophie has not been arrested, then Bubba has not been arrested.
 - (b) Neither Sophie nor Bubba has been arrested.
2. (2 points) Construct the truth table for $\sim p \vee q$.
3. (1 point) Suppose p and r are false statements, and q is a true statement. What is the truth value of $q \vee (p \wedge \sim r)$?

TAKE-HOME PORTION OF QUIZ 5. DUE TUESDAY.

6. (1 point) Suppose p is false and q is true. What is the truth value of $p \longrightarrow (q \vee \sim p)$?