Math 112 - Quiz 4

March 6, 2019

Name _____

Score _____

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

1. (2 points) Suppose p and r are false statements, and q is a true statement. What is the truth value of $q \vee (p \wedge \sim r)$? (Show your work.)

2. (4 points) Construct the truth table for $(\sim q) \longrightarrow (\sim p)$.

3. (4 points) Let p be the statement "The school mascot is a gopher" and let q be the statement "The school is in Ohio."

   (a) Write in symbolic form: "If the school is not in Ohio, then its mascot is a gopher."

   (b) Suppose p is true and q is true. What is the truth value of the statement in part (a)?