

Math 101 – Exam 2 - M-W Name \_\_\_\_\_

Part 1: Short answer (2 pts. each) - Write the word or phrase being described in the prompt.

For people – last names are both necessary and sufficient.

1. He was a student of Plato, more concerned with real life applications than his mentor was. Aristotle
2. Considered the father of symbolic logic; a system of algebra is named after him. Boole
3. An Anglican priest, his diagrams are used in both set theory and logic. Venn
4. The author of essays and books on logic, his works include "Alice in Wonderland." Dodgson (or Carroll)
5. He first used the word "function" to describe math relationships. He also studied law and sought a universal character for symbolic logic. Leibnitz
6. A statement which is always true (under all conditions) is called this. tautology / or valid statement
7. The inverse of a conditional statement is equivalent to its converse.
8. The law which performs the negation of compound statements containing AND and OR is De Morgan's Law
9. \_\_\_\_\_ reasoning considers specific examples and attempts to find a general pattern. Inductive
10. This type of notation lists the elements of a set. The set  $A = \{2, 4, 6, 8\}$  uses this notation. roster notation
11. This set contains every possible element in every set or subset of the problem. Universal set
12. Two sets have this property if they do not share any elements (their intersection is the empty set). mutually exclusive (or disjoint)

