

Midterm Topics

Math 105

Summer 2020

- Arguments
 - Prove validity/invalidity with a Venn diagram
 - Convert words to a symbolic expression and vice versa
 - Construct a truth table for a symbolic expression
 - Use De Morgan's laws on logical expressions
 - Prove validity/invalidity with a truth table
- Sets
 - Convert a description of a set to set-builder notation and vice versa
 - Take the union, intersection, and complement of sets
 - Determine if one set is a subset of another
 - Find the cardinality of a set
 - Find the cardinality of a union given the cardinality of the individual sets and their intersection
 - Apply De Morgan's laws to sets