

# CSE2321-Autumn 2024

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## Exam 1 - knowledge topics

1. Know how to create a truth table for several boolean variables and their potential interactions (and, or, not, etc).
2. Know how to translate english sentences into predicate logic with appropriate quantifiers.
3. Practice proving how to show a number is irrational.
4. Understand what a power set is and how to build one.
5. Remember that question on the smallest positive real number? Something similar :-).
6. Know how to work with unions and intersections of cartesian products. Know how to prove two sets are equal to each other.
7. Know what a bijective function is and how to prove something is a bijective function.