Quiz 11

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Tuesday, March 1, 2016

This quiz does not count towards your grade. It exists to simply gauge your understanding. Treat this as though it were a portion of your midterm or final exam. "Intuition Practice" might be tricky; watch out for subtleties. "Proofs" will be challenging to start; develop an arsenal of *approaches* to starting a problem.

1   Intuition Practice

For each of the following, choose "Finite", "Countably Infinite", "Uncountable".

1. $\mathbb{R}$

   Finite / Countable Infinite / Uncountable

2. $\mathbb{Q}$

   Finite / Countable Infinite / Uncountable

3. Computer programs

   Finite / Countable Infinite / Uncountable

4. Ternary numbers

   Finite / Countable Infinite / Uncountable

5. Graphs (defined as any set of vertices and edges)

   Finite / Countable Infinite / Uncountable