Terminology List for Final Exam

The material eligible for the final exam covers pretty much what was on Exam 2 + other material we covered after the pigeonhole principle.

So, for definitions and theorems that you should be able to state, you should use the same list as for Exam 2 + the following:

countable set uncountable set denumerable set for two cardinal numbers m,n the definition of

$$egin{array}{ccc} m+n & & & \ m\cdot n & & \ m^n & & \ \end{array}$$

statement of Cantor-Schroeder-Bernsteitn Theorem

a theorem (not the definition of countable) that said: a set A is countable iff ... a theorem (the the definition of infinite) that said: a set A is infinite iff ...

a theorem about when the a union of countable sets is countable; about when a product of countable sets is countable.

algebraic number transcendental number

definition of $m \le n$ and m < n where m and n are cardinal numbers

rational number (formal definition) definition of addition, subtraction, multiplication and in the formal system Q