Def: Set X is said to be finite if X is empty or if we can find a natural number n>1, such that there exist a one-to-one correspondence (bijection) from X to in finite if it is not finite Def: cardinality of a finite set X is the number of its elevients Det Sets X and Y are equivalent (have the same cardinality) if exists a bijection f: X => Y

Def: Set X is said to be countable; if there exists a bijection between X and the set of natural numbers Det cardinality of set A does not exceed the cardinality of set B if there exists an injection f. A -> B Theorem (Candor - Bernstein) if candinality

Theorem (Cantor - Bernstein) if candinality of set A does not exceed the candinality of set B and -11-BA then sets A and B have the same cardinality