

1. The sum of two bounded functions, both with domain  $\mathbb{R}$ , is bounded.

2. If  $f : A \rightarrow B$  and  $g : B \rightarrow C$  are injective functions, then  $g \circ f$  is injective.

3. Let  $f : A \rightarrow B$  be an invertible function. Then  $f$  is bijective.

4. (a) A set  $A$  is equipollent to itself.

(b) If  $A$  is equipollent to  $B$ , then  $B$  is equipollent to  $A$ .

5. The set of integers is denumerable.