

Cantor-Schroeder-Bernstein Theorem

The **Cantor-Schroeder-Bernstein Theorem** theorem shows that for any two sets A, B , $|A| = |B|$ whenever you can find two 1 – 1 functions, one from A to B , and the other from B to A .

More specifically, they show that if you have two 1 – 1 functions, then there is a *bijection* between the two sets.

Finding two 1 – 1 functions is generally easier to do than finding a bijection.