

Q3... [10 points] State the *Schröder-Bernstein Theorem*.

Use the Schröder-Bernstein Theorem to prove one of the following (your choice).

- $\mathcal{P}(\mathbb{Z}^+)$ and $(0, 1)$ have the same cardinality.
- $(0, 1)$ and $(0, 1)^2$ have the same cardinality.