Theorem (Cantor-Schröder-Bernstein)

Let A, B be sets. If there exist injective maps

$$f: A \to B, \quad g: B \to A,$$

then there exists a bijection $h: A \rightarrow B$.

Said another way...

$$(|A| \le |B|) \land (|B| \le |A|) \implies |A| = |B|.$$

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The video has a "visual" proof