

# A Mathematical Introduction to Logic

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## Chapter 0

# Useful Facts About Sets

### 0.1 Lemma 0A

Assume that  $\langle x_1, \dots, x_m \rangle = \langle y_1, \dots, y_m, \dots, y_{m+k} \rangle$ . Then  $x_1 = \langle y_1, \dots, y_{k+1} \rangle$ .