Show that X is hausdorf (=) A= {xxX1xeX} is closed in XxX let a, b ∈ X, a ≠ b then (a, b) ∈ D we have u, v sit a ellet, bevet 5. $t 2000 = \overline{Q}$ then $x \times x \notin 20 \times D$ for any $x \in X$ thus Δ^{c} is open so Δ is closed Δ^{c} is open thus for $(a,b) \in \Delta^{c}$ Felxu S. F(a, b) EUXUCA this means there are no points $(x, x) \in U^{(x)}$ thus $U \cap U = \emptyset$ and X is Hausdorf.