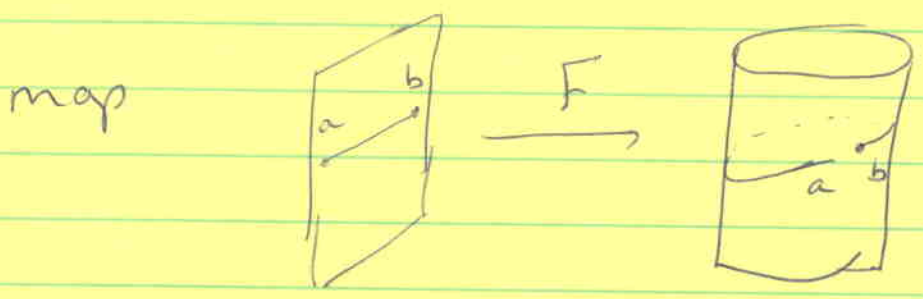


page 287 #4

Let $F: \mathbb{R}^2 \rightarrow \left\{ \begin{array}{l} \text{cylinder} \\ x^2 + y^2 = 1 \end{array} \right\}$ be the



is the map which wraps the plane around the cylinder. This is a local isometry but it clearly shrinks distances between points that are far apart on \mathbb{R}^2 .
