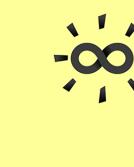
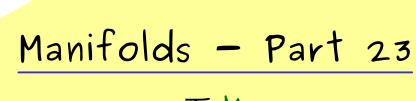
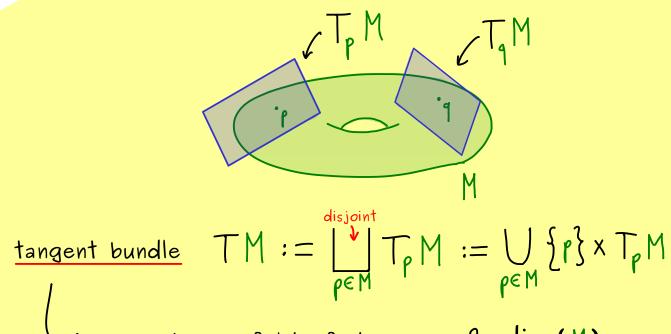


Definition:

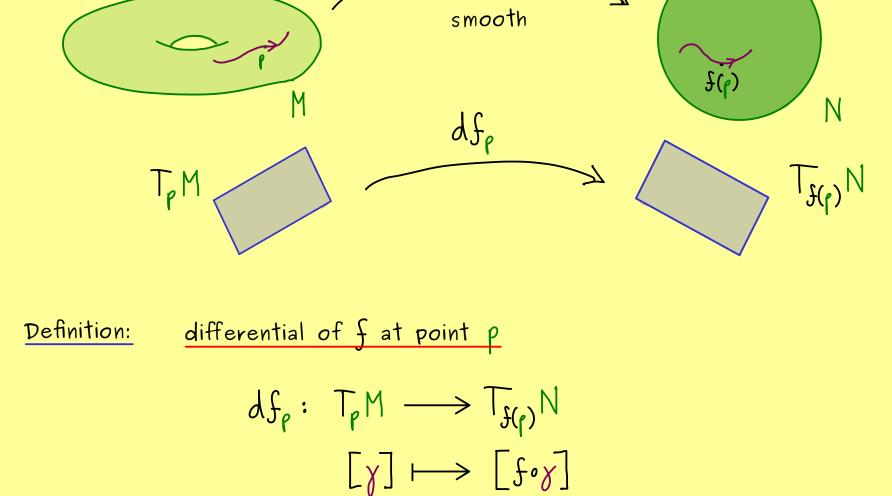


bijection





>> smooth manifold of dimension 2. dim(M)



differential: $df: p \mapsto df_p$ $M, N \subseteq \mathbb{R}^n$ smooth submanifolds

Example for submanifolds

= directional derivative of f along $[\gamma]$ at p