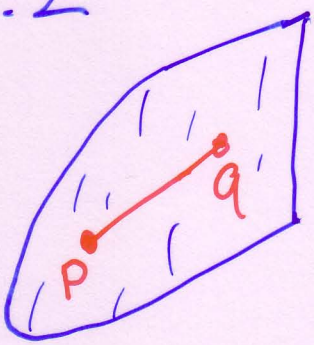
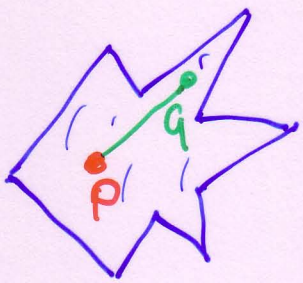
19.3.2

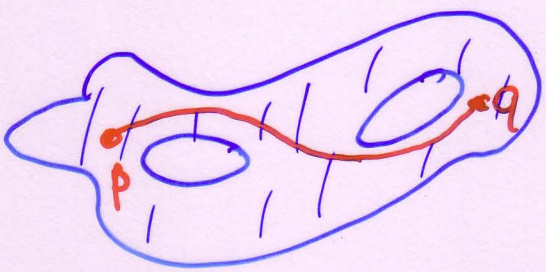


konvex $\forall p,q$



sternförmig

$\exists p \forall q$



wegzusammenhängend

$\forall p,q$

nicht wegzusammenhängend

19.3.3 Satz

$M \subseteq \mathbb{R}^n$ offen, sternförmig

$F: M \to \mathbb{R}^n$ F_i stetig diffbar $i=1-n$

exakt $\frac{\partial F_i}{\partial x_j} = \frac{\partial F_j}{\partial x_i}$ alle i,j

$\Rightarrow$ F hat ein Potential