

*Theorem:* The Hessian of a composition of maps  $\psi \circ \phi : M \rightarrow N \rightarrow P$  is  $\nabla d(\psi \circ \phi) = (\nabla d\psi)(d\phi, d\phi) + d\psi \circ (\nabla d\phi)$ .

*Proof:*

□