

(Signature)

$$\left(\frac{m}{m-1}\right)^{1/2} \nabla d = \left(\frac{m-1}{m}\right)^{1/2} \left(\frac{1}{V_m}\right) \otimes (\sqrt{m} \nabla \mu + \nabla X_m)$$

$$\sim \frac{\Gamma_m \mu + X_m}{2V_m^{3/2}} \nabla V_m$$

$$\Rightarrow \left(\frac{m}{m_1} \right)^{1/2} \nabla^2 d$$

~~24 Anal~~

~~xx (14 April)~~
~~should have $\epsilon: \begin{matrix} R^n & S & R \\ m \times n & m & \end{matrix}$ detⁿ not $n \times m$.~~
 ~~$\forall A \in \mathbb{R}$~~
 H 28

$f: \mathbb{R}^m \rightarrow \mathbb{R}$

$\nabla f: \text{row vector}$

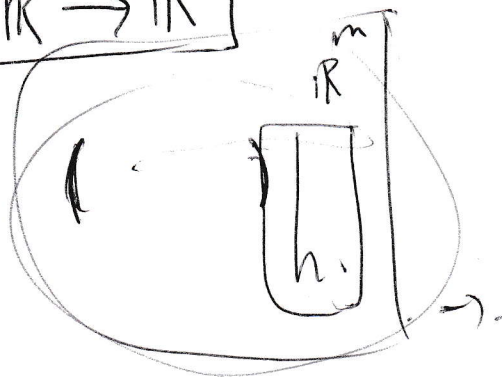
$\mathbb{R}^n \rightarrow \mathbb{R}^n$

$n \times 2$
column
vector

$$\nabla_t (a \nabla_t b)(h) = (\nabla_t a)(h) \times \nabla_t b(h)$$

$$= h^T (\nabla_t b) \left(\nabla_t a \right) k + a h^T \nabla_t^2 b k.$$

$$\alpha: \mathbb{R}^m \rightarrow \mathbb{R}$$



$$a^T V^2 b = (V^T b)^T a$$

$$\alpha(t) \in \mathbb{R}^n.$$

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