Первые пространственные производные

	$\mathrm{grad}T=\vec{\nabla}T$	$\mathrm{rot}\,\vec{\mathbf{M}}=\left[\vec{\nabla}\vec{\mathbf{M}}\right]$	$\mathrm{div}\,\vec{\mathbf{M}}=\left(\vec{\nabla}\vec{\mathbf{M}}\right)$	$\vec{\nabla}$
x y z	$\vec{\mathbf{1}}_x\frac{\partial T}{\partial x}+\vec{\mathbf{1}}_y\frac{\partial T}{\partial y}+\vec{\mathbf{1}}_z\frac{\partial T}{\partial z}$	$\begin{bmatrix}\vec{\mathbf{1}}_x & \vec{\mathbf{1}}_y & \vec{\mathbf{1}}_z\\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z}\\ M_x & M_y & M_z\end{bmatrix}$	$\frac{\partial M_x}{\partial x}+\frac{\partial M_y}{\partial y}+\frac{\partial M_z}{\partial z}$	$\vec{\mathbf{1}}_x\frac{\partial}{\partial x}+\vec{\mathbf{1}}_y\frac{\partial}{\partial y}+\vec{\mathbf{1}}_z\frac{\partial}{\partial z}$
r φ z	$\vec{\mathbf{1}}_r\frac{\partial T}{\partial r}+\vec{\mathbf{1}}_\varphi\frac{\partial T}{r\partial\varphi}+\vec{\mathbf{1}}_z\frac{\partial T}{\partial z}$	$\frac{1}{r}\begin{bmatrix}\vec{\mathbf{1}}_r & \vec{\mathbf{1}}_\varphi & \vec{\mathbf{1}}_z\\ \frac{\partial}{\partial r} & \frac{\partial}{\partial\varphi} & \frac{\partial}{\partial z}\\ M_r & rM_\varphi & M_z\end{bmatrix}$	$\frac{1}{r}\left[\frac{\partial(rM_r)}{\partial r}+\frac{\partial M_\varphi}{\partial\varphi}+r\frac{\partial M_z}{\partial z}\right]$	$\vec{\mathbf{1}}_r\frac{\partial}{\partial r}+\vec{\mathbf{1}}_\varphi\frac{\partial}{r\partial\varphi}+\vec{\mathbf{1}}_z\frac{\partial}{\partial z}$
R θ φ	$\vec{\mathbf{1}}_R\frac{\partial T}{\partial R}+\vec{\mathbf{1}}_\theta\frac{\partial T}{R\partial\theta}+\vec{\mathbf{1}}_\varphi\frac{\partial T}{R\sin\theta\partial\varphi}$	$\frac{1}{R^2\sin\theta}\begin{bmatrix}\vec{\mathbf{1}}_R & \vec{\mathbf{1}}_\theta R & \vec{\mathbf{1}}_\varphi R\sin\theta\\ \frac{\partial}{\partial R} & \frac{\partial}{\partial\theta} & \frac{\partial}{\partial\varphi}\\ M_R & RM_\theta & R\sin\theta M_\varphi\end{bmatrix}$	$\frac{1}{R^2\sin\theta}\left[\sin\theta\frac{\partial(R^2M_R)}{\partial R}+R\frac{\partial(\sin\theta M_\theta)}{\partial\theta}+R\frac{\partial M_\varphi}{\partial\varphi}\right]$	$\vec{\mathbf{1}}_R\frac{\partial}{\partial R}+\vec{\mathbf{1}}_\theta\frac{\partial}{R\partial\theta}+\vec{\mathbf{1}}_\varphi\frac{\partial}{R\sin\theta\partial\varphi}$
Ламэ	$\sum_1^3\frac{\vec{\mathbf{1}}_k}{h_k}\frac{\partial T}{\partial\xi_k}$	$\frac{1}{h_1h_2h_3}\begin{bmatrix}\vec{\mathbf{1}}_1h_1 & \vec{\mathbf{1}}_2h_2 & \vec{\mathbf{1}}_3h_3\\ \frac{\partial}{\partial\xi_1} & \frac{\partial}{\partial\xi_2} & \frac{\partial}{\partial\xi_3}\\ h_1M_1 & h_2M_2 & h_3M_3\end{bmatrix}$	$\frac{1}{h_1h_2h_3}\left[\frac{\partial(h_2h_3M_1)}{\partial\xi_1}+\frac{\partial(h_1h_3M_2)}{\partial\xi_2}+\frac{\partial(h_1h_2M_3)}{\partial\xi_3}\right]$	$\sum_1^3\frac{\vec{\mathbf{1}}_k}{h_k}\frac{\partial}{\partial\xi_k}$