$$\mathbf{d} \downarrow \qquad \qquad \downarrow \qquad \qquad$$

 $(\operatorname{rot}\vec{A})_{ii}$

 $d\eta = \left(\sum_{j=1}^{3} \frac{\partial F_{j}}{\partial x^{j}}(x)\right) dx^{1} \wedge dx^{2} \wedge dx^{3}$

Functions

 \vec{B}

 $\operatorname{div}(\vec{B})$

 $\Omega^0(\pmb{M})$

 $\Omega^3(\boldsymbol{M})$