

$$f : (\mathcal{M}, g) \rightarrow \mathbb{R}^d$$

$$f(z) = \frac{1}{2\pi i} \int_{\Gamma} f(\zeta)(\zeta - z)^{-1} d\zeta$$

$$\frac{D\mathbf{u}}{Dt} = \frac{\partial \mathbf{u}}{\partial t} + (\mathbf{u} \cdot \nabla) \mathbf{u} = \eta \nabla^2 \mathbf{u} - \frac{1}{\rho} \nabla p + \frac{1}{\rho} \mathbf{f}$$

$$\pi^\top P = \pi^\top$$

$$Ax = b$$

