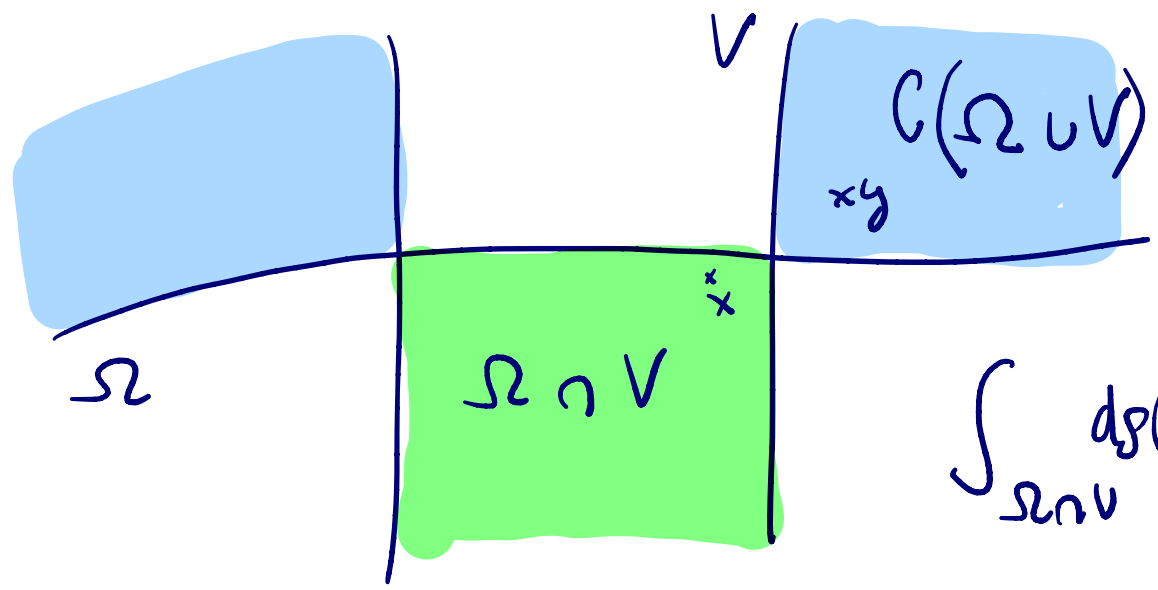
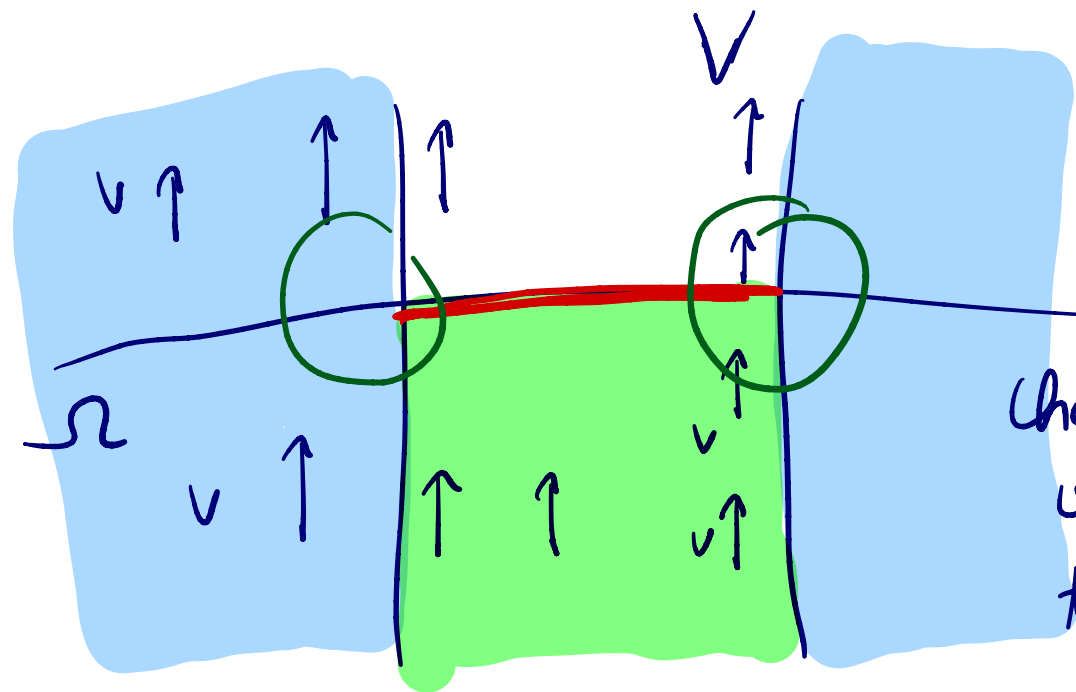


$$\int_{\partial \Omega \cap \partial V} \dots = ?$$



$$\int_{\Omega \cap V} dg(x) \int_{M \setminus (\Omega \cup V)} dg(y) (\dots) \mathcal{L}(x, y)$$

better: work with inner solutions
 (assume that M has a smooth manifold structure)



Choose $v \in \Gamma(M, TM)$
 vector field which is
 tangential to ∂V

v decays \downarrow

$$A = \int_{\Omega_{nV}} d\rho(x) \int_{\mathcal{M}_{1V}} d\rho(y) \nabla_{\underline{1}, \underline{V}} (\dots) \mathcal{L}(x, y)$$

$$= \int_{\partial \Omega_{nV}} d\rho(v, x) \int_{\mathcal{M}_{1V}} (\dots) \mathcal{L}(x, y)$$

alternatively

$$\int_{\Omega_{nV}} d\rho(x) \int_{\mathcal{M}_{1V}} d\rho(y) \nabla_{\underline{2}, \underline{V}} (\dots) \mathcal{L}(x, y) = 0$$

$$A = \int_{\Omega_{nV}} d\rho(x) \int_{\mathcal{M}_{1V}} d\rho(y) (\nabla_{\underline{1}, \underline{V}} - \nabla_{\underline{2}, \underline{V}}) (\dots) \mathcal{L}(x, y).$$