Hw-18 Due: 20 Dec 2016

In the divergence theorem replace \mathbf{v} by $\mathbf{v} \times \mathbf{c}$, where \mathbf{c} is a constant vector, to show

$$\int_{V} (\nabla \times \mathbf{v}) d\tau = -\oint_{S} \mathbf{v} \times d\mathbf{a}$$