Ex3.

$$\int_{\mathcal{A}} \langle F, d\hat{P} \rangle = \frac{\mathcal{N}(\varphi_{17})}{|I|} \cdot \sqrt{g_{17}} dx.$$

$$\int_{\mathcal{A}} \mathcal{R} \frac{t_{1} \times t_{2}}{|I| t_{1} \times t_{2} |I|} dx.$$

=> dF = t.(4(x)) x tr(4(x)) dx.dx2

Ex 9.

 $\int_{R} \langle \nabla u, \nabla v \rangle dx = -\int_{R} u \cdot \Delta v dx + \int_{\partial R} u \frac{\partial v}{\partial n} dA$