Joe F: Ri -> R continue y tranget ) EM3 f(-1,-y,-1) = -f(1,y,+), (impac) S = 1 x2+ y2+ 22= 14. Calculus I = [ FdS For the mo prom positive (vector normal horize frees) \$ DeR2 - SCR3 => Is Fas = [ f(\$(4,0)) || \$\phi\_0 x \phi\_0 || dudo = I, integrable parque for untime. To himmon \$2 por \$2 (u.v) = - \$a (u.v) (- \$2:0 -> 5) de mode que como por es bijection , fi = - for, Y s. \$\( \psi\_2(u,v) = (x,y, \epsilon) \epsilon \( \sigma\_1(u,v) = (-x,-y,-\epsilon) \epsilon \) Porque 1=x1+52+22=>1 = (-x)2+(-y)2+(-7)2. of Portanto de en un reparametritación de S. Adenós bien unientade: 1 dzu = - Ø14, Ø2v = - Ø1v 8 = frex div = (- 4nu)x (- div) = div x div I = f (ba(u,v)) ( boundar) fluids = f f(ba(u,v)) (doux doubtods =  $\int_{0}^{\infty} f(-d_{1}(wv)) \| (d_{1}u \times d_{1}v) \| d_{2}u d_{3}v \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| (d_{1}u \times d_{1}v) \| d_{4}v \| = \int_{0}^{\infty} -f(\phi_{1}(uv)) \| d_{4}v \| + \int_{0}^{\infty} -f(\phi_{1}(uv))$ por le det de de  $= -I. \Rightarrow \int_{S} f ds = -\int_{S} f ds = 0.$ 

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