Grabari to

1.
$$2f(x,y) = e^{x} \cos y + y$$
 $f(x,y) = e^{x} \cos y + xy + C(y)$
 $2f(x,y) = -e^{x} \sin y + x + C'(y) = x - e^{x} \sin y$

Assim $C'(y) = 0 = C(y) = D$
 $f(x,y) = e^{x} \cos y + xy + D$
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$$\frac{\partial(x,y)}{\partial(u,v)} = \begin{vmatrix} \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} \end{vmatrix} = \frac{1}{2}$$

$$\int (x-y)^2 \sin^2(x+y) \, dx \, dy = \frac{1}{2} \int_{-\pi}^{\pi} \int_{\pi}^{3\pi} u^2 \sin^2 v \, dv \, du$$

$$\int \int_{-\pi}^{\pi} \frac{u^2}{2} \left(\int_{\pi}^{3\pi} dv - \int_{\pi}^{3\pi} \cos(2v) \, dv \right) \, du$$

$$= \frac{1}{2} \int_{-\pi}^{\pi} u^2 \left(\int_{-\pi}^{3\pi} dv - \int_{\pi}^{3\pi} \cos(2v) \, dv \right) \, du$$

$$= \frac{1}{4} \int_{-\pi}^{\pi} u^2 \, du = \frac{\pi}{2} \left(\frac{u^3}{3} \Big|_{-\pi}^{\pi} \right) = \frac{\pi}{3}$$

$$3 - \text{Segue do Teorema de Guen com } P = 0 \text{ e } Q = x$$

$$\text{falta de orientour}$$

$$\text{onde } D = \frac{1}{2} \text{ a region limitade por } C \cdot \frac{1}{2} \text{ total} = \frac$$

Solution of the remark the bount form t=0 to the solution of t=0 and t

$$J = \iint_{E} \pi e^{\sqrt{2^{2}+y^{2}+z^{2}}} dV$$

$$J = \iint_{I} \pi e^{\sqrt{2^{2}+y^{2}+z^{2}}} dV$$

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