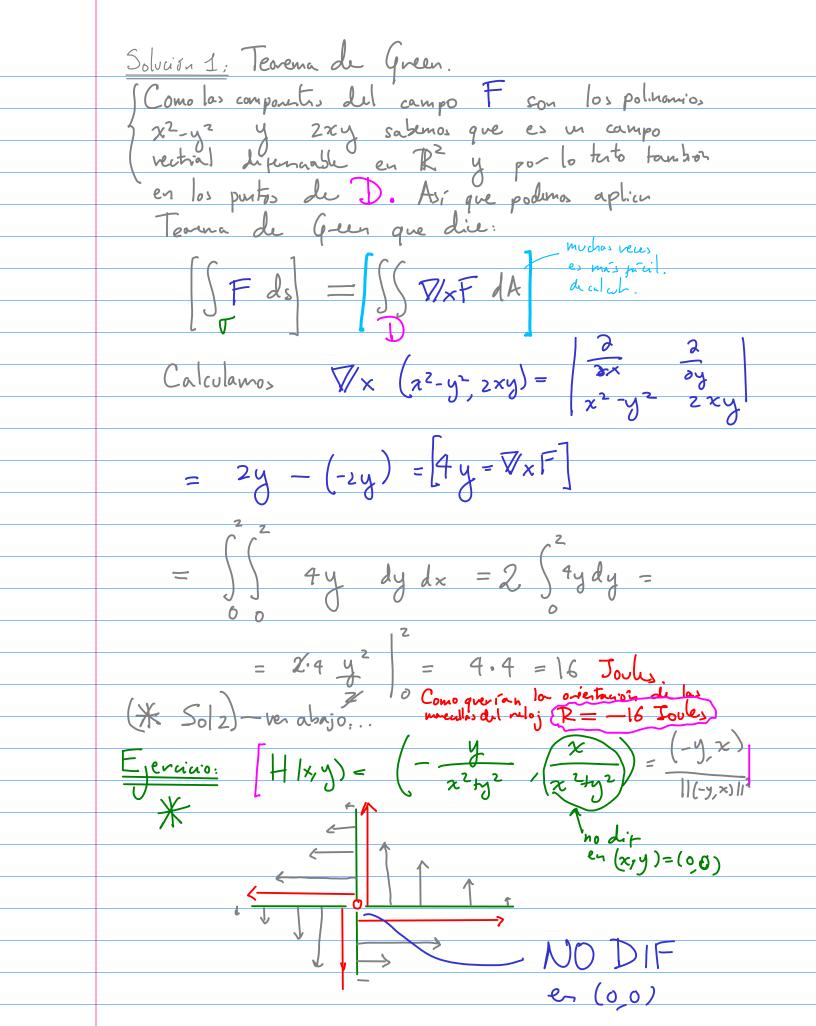


Orientado en la dirección de las maneillas del reloj. $F(x,y) = (x^2 - y^2 z \times y)$ $F(x,y) = (x^2 - y^2 z \times y)$



Sol 2: (Parnetizan o e integar)

$$(0,z) = (-y^2,0)$$

$$(0,y) = (-y^2,0)$$

$$(2,y) = (x^2-y^2,2xy)$$

$$(3,y) = (x^2-y^2,2xy)$$

$$\begin{cases} 0 \le t \le 1 \\ \forall \tau_{1}(t) = t(2,0) \end{cases} \qquad \begin{cases} F_{1} = \int_{0}^{1} (\sigma(t)) \cdot \sigma'(t) dt \\ = (2t,0) \end{cases} \qquad \sigma_{1} \qquad 0$$

$$\tau_{1}'(t) = (2,0) \qquad = \int_{0}^{1} ((4t)^{2}, 4t) \cdot (2,0) dt \\ = \int_{0}^{1} 2(4t)^{2} dt = 32 \int_{0}^{1} t^{2} dt = 32 \end{cases}$$

$$= \int_{0}^{1} (4-8t+qt^{2}-4)(-2) dt = \int_{0}^{16t-8t^{2}} dt$$

$$= 8 - \frac{8}{3} = \frac{16}{3}$$

$$\int Fds = \int Fds + \int Fds + \int Fds + \int Fds$$

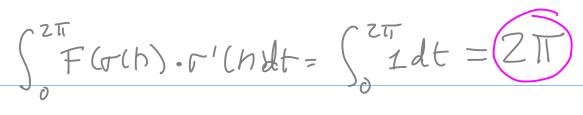
$$\frac{32}{3} + \frac{16}{3} + \frac{16}{3} + 0 = 16$$

Ejercicio: Sea
$$H(x,y) = \begin{pmatrix} -y & x \\ \hline x^2 + y^2 \end{pmatrix}$$

(b) Calcule SHds on t cl circulo unitrol paranetizado

(c)
$$V_{R}$$
 Teo Shl_{1} (NOTA:

Sol: $\frac{2}{2x}$ $\frac{2}{2x}$
 $-y(x^{2}y^{2})^{-1}$ $\times (x^{2}y^{2})^{-1}$
 $(x^{2}/x^{2})^{-1} + \times [-(x^{2}/x^{2})^{-1}]2x) - (-(x^{2}/x^{2})^{-1} - y[-(x^{2}/x^{2})^{-1}]2x)$
 $= (x^{2}/x^{2})^{-1} - 2x^{2}$
 $= (x^{2}/x^{2})^{-1} - 2(x^{2}/x^{2})^{-1} + 2x^{2}(x^{2}/x^{2})^{-1}$
 $= 2(x^{2}/x^{2})^{-1} - 2(x^{2}/x^{2})^{-1} + 2x^{2}/x^{2}$
 $= 2(x^{2}/x^{2})^{-1} - 2(x^{2}/x^{2})^{-1} + 2x^{2}/x^{2}$
 $= 2(x^{2}/x^{2})^{-1} - 2(x^{2}/x^{2})^{-1} + 2x^{2$



Note:

It ds (T) X H ds

D II

2TI

Teoena du

Geen No aplica

Proget H no es

dif en (0,0).