te'glalap  
magasseja: 
$$\int (y(t))$$
  
alapja:  $\sqrt{(x(t))^2 + (y(t))^2}$ 

1., 
$$f(x,y) = L + x^2 y$$

$$\int_{(-1,0)}^{\infty} \frac{\dot{y}(t)}{(1,0)} \times \begin{cases} \dot{y}(t) = \begin{cases} 1 \cdot \cos t \\ 1 \cdot \sin t \end{cases} \end{cases} t \in [0, \pi]$$

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$$= \left\{ \left. \left\{ \left( t \right) = \left( \frac{t}{1 - t^2} \right) \right| t \in \left[ -1, 1 \right] \right\} \right.$$

$$\dot{y}(t) = \begin{cases} -\sin t \\ \cos t \end{cases} ||\dot{y}(t)|| = 1, \quad f(\dot{y}(t)) = f(\cos t, \sin t) = 2 + \cos^2 t \sin t$$

$$\int \int \int (x) dx = \int (2 + \cos^2 t \sin t) \cdot 1 dt = \left[ 2t - \frac{\cos^3 t}{3} \right]_0^{1/2} = 2\pi - \frac{\cos^3 \pi}{3} + \frac{\cos^3 \pi}{3}$$

$$= 2\pi + \frac{2}{3}$$

$$\int_{\Gamma} f(x) dx = \left[ 3\sqrt{2} e^{t} + \sqrt{2} \frac{3}{13} e^{3t} (2t) - \sqrt{2} \frac{2}{13} e^{3t} (os(2t)) \right]_{0}^{T}$$

$$= 3\sqrt{2} \left( e^{T} - 1 \right) - \sqrt{2} \frac{2}{13} e^{3T} \left( os(2T) + \sqrt{2} \frac{2}{13} e^{0} cos 0 \right)$$

$$= 3\sqrt{2} \left( e^{T} - 1 \right) + \sqrt{2} \frac{2}{13} \left( 1 - e^{3T} \right).$$

$$F:\mathbb{R}^{2}\rightarrow\mathbb{R}^{2} \quad \text{veltormero}^{n}$$

$$\Gamma = \left\{ f(t) \in \mathbb{R}^{2} \middle| t \in [a,b] \right\}$$

$$\int F(n) dn = \int \subset F(f(t)), \ \dot{y}(t) > dt$$

$$\Gamma$$

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$$\Gamma = \left\{ f(t) \in \mathbb{R}^{2} \mid t \in [a,b] \right\}$$

$$\int F(n) dn = \int C F(f(t)), \ \dot{y}(t) > dt$$

$$\int F(x,y) = \begin{bmatrix} x^{2} \\ -y^{2} \end{bmatrix}$$

$$C(n) = \int C \left[ x^{2} \right] = \sqrt{2}$$

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3., 
$$F(x,y) = \begin{bmatrix} x^2 \\ -y^2 \end{bmatrix}$$

$$\begin{bmatrix} 7 = \{ \}(t) = \begin{bmatrix} \cos t \\ \sin t \end{bmatrix} \mid t \in [0.7/2] \} = \frac{(0.1)}{(1.0)} \times \begin{bmatrix} \cos^2 t \\ \cos t \end{bmatrix}, F(y(t)) = \begin{bmatrix} \cos^2 t \\ -\sin^2 t \end{bmatrix}$$

$$\int F(n) dn = \int \int \frac{\cos^2 t}{-\sin^2 t} \int \frac{-\sin t}{\cos t} dt = \int \frac{-\cos^2 t \sin t}{-\sin^2 t \cos t} dt$$

$$= \int \frac{\cos^3 t}{3} - \frac{\sin^3 t}{3} \int \frac{\cos^3 t}{3} - \frac{\cos^3 t}{3} - \frac{\cos^3 t}{3} - \frac{\cos^3 t}{3} = \frac{\cos^3 t}{3}$$

$$Y(t) = \begin{bmatrix} 1-t \\ t \end{bmatrix}, t \in [0,1]$$

$$At = \begin{bmatrix} 1-t \\ 1-t \end{bmatrix}, t = 1-x = 0 \quad \text{(fostor)} \quad \text{a sound}$$

$$Y(t) = \begin{bmatrix} 1-t \\ 1-t \end{bmatrix}, \quad Y(t) = \begin{bmatrix} -1 \\ 1 \end{bmatrix}$$

$$Y(t) = \begin{bmatrix} 1-t \\ 1-t^2 \end{bmatrix}, \quad Y(t) = \begin{bmatrix} -1 \\ 1 \end{bmatrix}$$

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 $\frac{\partial}{\partial y}(x-y)=-1$  e's  $\frac{2}{2x}(2-x)=-1=)$  potencialos  $\int (x-y) dx = \frac{x^2}{2} - xy + c_1(y) \int c_1(y) = \frac{2y}{2} e', \quad c_2(x) = \frac{x^2}{2}$   $\int (z-x) dy = \frac{2y}{2} - xy + c_2(x) \int e'(x-y) = \frac{x^2}{2} - xy + \frac{2y}{2} (+c)$