Penseus on de exemples parchias

1) à l'ail es la distreme mis conta entre les des puntes?

$$\frac{1}{1} \int_{0}^{\infty} ds = \int_{0}^{\infty} \sqrt{dx^{2} + dy^{2}} dx = \int_{0}^{\infty} \sqrt{1 + \left(\frac{dy}{dx}\right)^{2}} dx$$

la ida es busar la

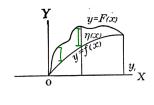
7) Si sélo hobora grevedadé (vál lacy cetaria soria la mis rápida pora lagor?

$$I_{z} = \int_{0}^{|U-u|} dt = \int_{0}^{|U-u|} \frac{ds}{v} \frac{dv}{dx}$$
 pro

$$E(G) = E(1,-u)$$
=> $0 = \frac{1}{2} / v^2 + / 9$ => $1 = \int 1 + (\frac{dy}{dt})^2 \frac{dr}{\sqrt{-zgg}}$
=> $v = \sqrt{-zgg}$
=> $\frac{1}{\sqrt{-g}} \int \frac{1 + (\frac{dy}{dt})^2}{\sqrt{-g}} dx$

Par encertar y(x) óptimes, no tors

Ii= I=[g(x)] -> lependrenes I;[g(x), ag(x)] x



=> Par optimizer séle tours que dI: |=0 Eso que da |=0 per

1)
$$I_{1}(x) = I_{1}[g(x) + a\eta(x)] = \int_{0}^{x} \left[1 + \left(\frac{1}{dx}[g + a\eta]\right)^{2} dx\right]$$

$$= \int_{0}^{x} \left[1 + \left(\frac{1}{dx} + A\frac{1}{dx}\right)^{2}\right] dx$$

Calculate
$$\frac{d I_{1}(A)}{dA} = \int_{0}^{A} \frac{d}{dA} \left[I_{1}(\gamma)^{3} \cdot z_{1}z_{1}^{2}\gamma^{2} \cdot z_{2}(\gamma)^{3} \right] I_{1}$$

$$= \int_{0}^{A} \frac{1}{2} \left[\int_{0}^{2\pi} \left(z_{2}^{2}\gamma^{2} \cdot z_{2}(\gamma)^{3} \right) I_{2} A \right] I_{2}(z_{2}^{2}(z_{1}^{2})^{3}) I_{1}(z_{2}^{2}(z_{1}^{2})^{3}) I_{2}(z_{2}^{2}(z_{1}^{2})^{3}) I_{2}(z_{2}^{2}(z_{1}^{2})^{3}) I_{2}(z_{2}^{2}(z_{2}^{2})^{3}) I_{2}(z_{2}^{2}) I_{2}(z_{2}^{$$

Former Telesting
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