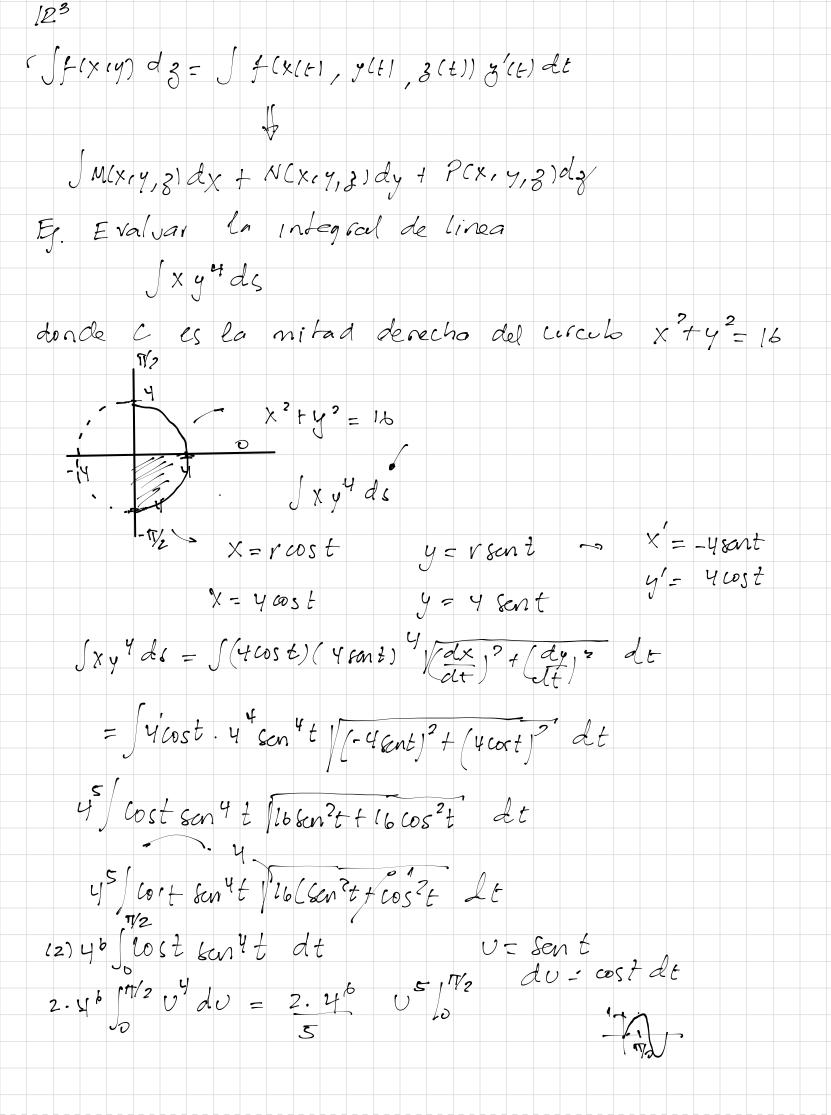
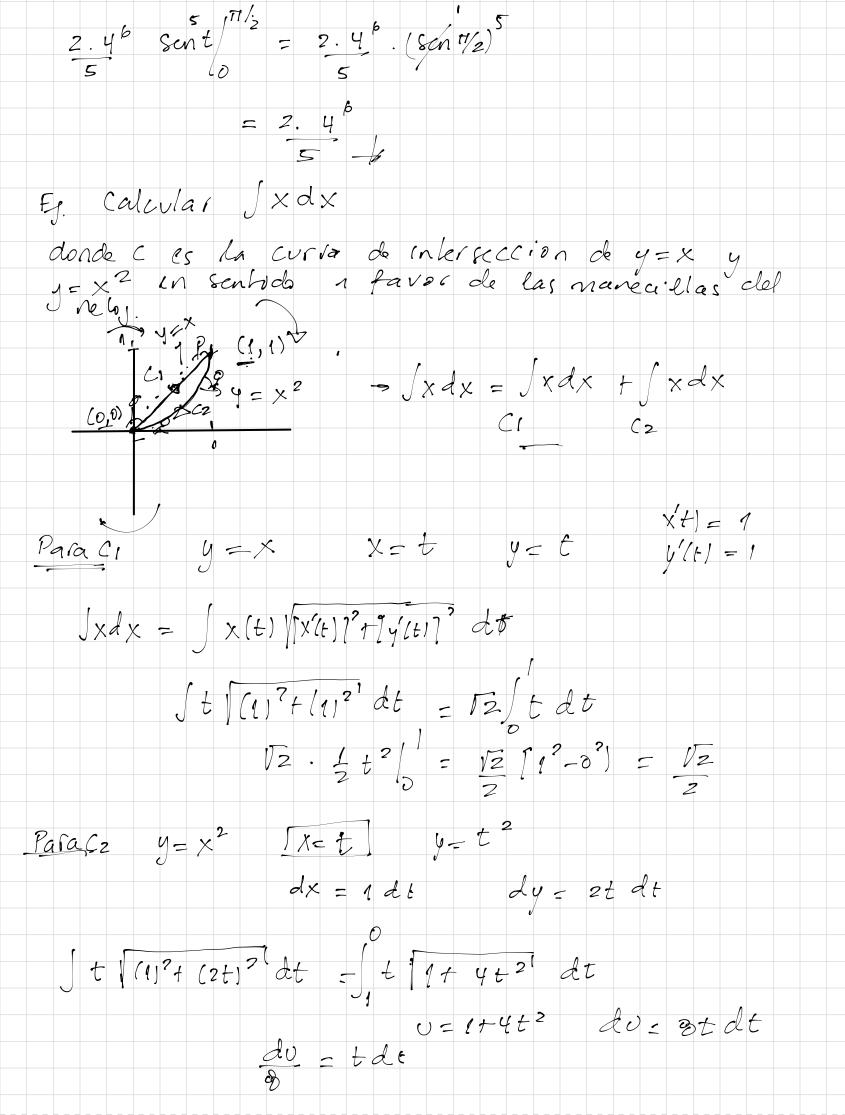


Defunición: Integral de Cinea. Si f se define en ma cuiva soure c dada por las concernes x=x(t), y=y(t) a=t=6 la integral de lineo de f a la largo de c es: = \ \f(\forall \, \text{y} \cdot \delta \sigma \sigma \frac{1}{2} \frac{1}{2} \delta \text{y} \delta \sigma \frac{1}{2} \delta ds - longitud de la Curva. $dS = \sqrt{\frac{dx}{dt}} + \frac{dy}{dt} = \frac{2}{3} + \frac{1}{3}$ $\int f(x, \eta) ds = \int f(x(t), y(t)) \int \frac{dx}{dt} \int_{-\infty}^{2} \frac{dy}{dt} \int_{-\infty}^{\infty} dt \rightarrow D^{2}$ $\int f(x,y,3)ds = \int f(x(t), y(t), 3(t)) \left(\frac{dx}{dt}\right)^2 \left(\frac{dy}{dt}\right)^2 + \left(\frac{dz}{dt}\right)^2 dt$ integral de linea en forma de deferencial. con respecto do X. $\int f(x,y) dx = \lim_{n \to \infty} \sum_{i=1}^{n} f(x_i, y_i) dx_i$ $\lim_{n \to \infty} \int f(x_i, y_i) dx = \lim_{n \to \infty} \int f(x_i, y_i) dx_i$ $\int f(x,y) dy = \begin{cases} l & \text{if } Y = 1 \\ 0 & \text{if } 1 \end{cases}$ $\iint f(x,y) dx = \iint f(x(E), y(E)) x'(f) dt$ / 1-(x,g) dy = [f(x(t), y(t)) y(t) dt $\int f(x,y)dx + \int f(x,y)dy = \int M(x,y)dx + N(x,y)dy$





 $= \frac{1}{12} \left[\frac{1}{12} + \frac{1}{1$ $C = C_1 + C_2 = \frac{\sqrt{2}}{2} - 0.8493 = -0.1411$ Evalue la integral de linea. $\int (x+2y) dx + x^2 dy$ segnentas de vecho de (0,0) a (2,1) y de (2,1) a (3,0) (0,0) (2,1) (2 (0,0) (2,1) (2 (3,0) Para (1 $y - y_0 = m(x - x_0)$ $m = y_2 - y_1 = 1 - 0 = 1$ y - 0 = 1(x - 0) y = 1xdy = 1 dx $\int (X + 2(\frac{1}{2}X)) dx + X^{2}(\frac{1}{2}) dx$ Jax + x) dx + 1 x dx $\int_0^{\infty} (2x + \frac{1}{2}x^2) dx = x^2 + \frac{1}{h}x^3 + \frac{2}{0}$

