Juin Eduardo Colobs Kramon PA: 2199665 EDO copitulo 6 Example 6.1) 2x + y2 + 82xy dx  $M = 2x + y^2 \qquad M_y = 2y$   $N = 2xy \qquad Nx = 2y$  $\int M(x,y) dx = \int 2x + y^2 dx = x^2 + y^2 x + h(y) = f(x,y)$ f(x,y)y = 2yx + h' = 2yy h' = 0 $F(2,y) = x^2 + y^2x + c \Rightarrow y = (c - x^2)$ Exemple 6.2) (Y cos  $x + 2xe^{y}$ ) + (rem(x) +  $x^{2}e^{y}$ -J) y'=0  $M = y \cos x + 2xe^{y}$   $My = \cos x + 2xe^{y}$   $N = \lambda \sin x + x^{2}e^{y}$ -J  $Mx = \cos x + 2xe^{y}$   $M = \lambda \sin x + x^{2}e^{y}$ -J  $Mx = \cos x + 2xe^{y}$ sona + 2 (2 x2 + h(y) = U(x,y) Y(x1) = sen x + x2 ex - y + c = 0 Y = - ysenx - x204-0/

