6. 
$$\underbrace{2 \times y - 3 \times^2 y^2}_{M(x_1 y)} + \underbrace{(x^2 - 2x^3 y) y'}_{N(x_1 y)} = 0$$

$$\frac{dH}{dy} = 2x - 3x^{2} \cdot 2y = 7x - 6x^{2}y$$

$$\int_{0}^{\infty} \sin i y u ds, \text{ for tento}$$

$$\int_{0}^{\infty} \frac{df}{dx} = M(x,y)$$

$$\int_{0}^{\infty} \cos i y u ds, \text{ for tento}$$

$$\int_{0}^{\infty} \frac{df}{dx} = M(x,y)$$

$$\int_{0}^{\infty} \cos i y u ds, \text{ for tento}$$

$$\int_{0}^{\infty} \frac{df}{dx} = M(x,y)$$

Como 
$$\frac{dJ}{dx} = M(x,y) \rightarrow \frac{dJ}{dx} = 2xy - 3x^2y^2 \rightarrow J = \int (2xy - 3x^2y^2) dx$$
  
=  $2y \int x dx - 3y^2 \int x^2 dx = 2y \frac{x^2}{2} - 3y^2 \frac{x^3}{3} + k(y)$   
 $J = x^2y - x^3y^2 + k(y)$ 

$$\frac{dJ}{dy} = x^{2} - 2x^{3}y \rightarrow x^{2}/1 - 2x^{3}y + k'(y) = x^{2} - 2x^{3}y$$

$$k'(y) = 0 \rightarrow k(y) = 0$$

$$J = x^2y - x^3y^2 - x^2y - x^3y^2 = C$$
 define le forma implicita

las soluciones y de las economes

diferenciales CEIR