$$U=g^1$$
 $U^1=y^{1\ell}$

$$\times U + 2U^1 = 6 \times$$

$$\times \frac{dv}{dx} + 2v = 6x$$

$$\frac{dv}{dx} + \frac{2}{x}v = 6$$

$$x^2 \frac{du}{dx} + 2xu = 6x^2$$

$$\int_{X} (x^2 U) = 6x^2$$

$$x^2 v = \int 6x^2 dx = 2x^3$$

$$U' = \frac{\partial U}{\partial x} \quad U'' = \frac{\partial U}{\partial x (\frac{\partial V}{\partial x})}$$

$$e^{\int \frac{2}{x} dx} \Rightarrow 2\int_{x}^{1} dx$$

$$e^{2\ln |x|} = \chi^{2}$$

$$V=Y'=2x+\frac{c}{x^2}$$

$$y = \int 2x + \frac{C}{x^2} dx$$

$$\chi^2 - \frac{C}{\chi} + C_2$$

$$\frac{dV}{dx} = 6 - \frac{2}{x}V - estandar \Rightarrow V' = f(x, U) = 6 - \frac{2}{x}V$$

continuor, excepto cuando X=0

No cumple en regiones donde x=0 (ejey)

Ecuación no defininda en x=0 => No hay solicione, donde (0, y) Solo para x>0 y x<0

y(1) = 2

$$y(1) = (1)^{2} - \frac{C}{(1)} + C^{2}$$
 $2 = 1 - C + C_{2} - 7$ $(-C_{2} = 1)$

$$4(1) = (1)^{2} - \frac{C}{(1)} + C_{2}$$

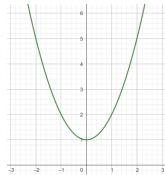
$$1 = 1 - C_{1} + C_{2} - 7 \quad C - C_{2} = 0$$

y(1)=-2

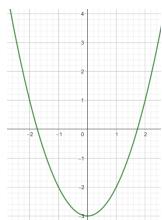
y(0)=-3 y(0)

Grafical (=0
$$\Rightarrow$$
 $y(x) = x^7 - c_2$

$$y(1) = 2$$
 $2 = (1)^2 - C_2 \Rightarrow C_2 = -1 \rightarrow y(x) = x^2 - (-1) = x^2 + 1$



$$y(x)=-2$$
 $-2=(1)^2-(2=3)=x^2-(3)=x^2-3$



y(1)=1 $1=(1)^2-C_2=> C_2=0 \rightarrow y(x)=x^2$ $(0)=x^2$

