1. 
$$u_1^1 = 3 \times (1 + u_2^{2a})$$

$$\int (x) = 2x$$

$$\int (y) = 1 + u_2^{2a}$$

$$\frac{du}{dx} = 2x \cdot dx$$

$$\int \frac{du}{1 + u_2^{2a}} = 2x \cdot dx$$

$$\int \frac$$

3. 
$$xg' = y^3 + y$$

$$y' = \frac{1}{x}(y^3 + y)$$

$$y = \frac{1}{2}(y^3 + y)$$

$$\int \frac{1}{y(y^{2}+1)} dy = \int \frac{1}{x} dx$$

$$\frac{a}{y} + \frac{by+c}{y^{2}+1} = \frac{ay^{2}+ay + byy + cy}{y(y^{2}+1)} = \frac{y^{2}(a+b) + y \cdot c + a}{y(y^{2}+1)} \Rightarrow b = \frac{ay^{2}+ay + byy + cy}{y(y^{2}+1)} \Rightarrow b = \frac{ay^{2}+ay + cy}{y(y^{2}+1)} \Rightarrow ay^{2}+ay + cy} \Rightarrow ay^{2}+ay + cy$$

4. 
$$xy + (2x-1)y' = 0$$
 $y' = \frac{-xy}{9x-1}$ 
 $y' = \frac{dy}{dx}$ 
 $\int \frac{1}{y} dy = -\frac{x}{2x-1} dx / \int y = 0$ 
 $\int \frac{1}{y} dy = -\int \frac{x}{2x-1} dx$ 
 $\int \frac{1}{y} dy = -\int \frac{x}{2x-1} dx$ 
 $\int \frac{1}{y} dy = -\frac{1}{2} \int \frac{2x-1+1}{2x-1} dx$ 

$$|y| = e^{-\frac{1}{2}x} \cdot |2x-1|^{-\frac{1}{5}} \cdot |2$$

5. 
$$y' = k \cdot \frac{9}{x}$$
,  $k \cdot \frac{9}{x}$ 
 $y' = \frac{k}{x}$ 
 $y = 0.5d$ , Simpledoria

 $y' = \frac{dy}{dx} \Rightarrow \frac{dy}{y} = \frac{k}{x} dx / 3 \Rightarrow 3 \frac{1}{y} dy = k \int \frac{1}{x} dx$ 
 $|y| = k \cdot \frac{9}{x} + \frac{9}{x} = \frac{1}{x} dx / 3 \Rightarrow 3 \frac{1}{y} dy = k \int \frac{1}{x} dx$ 
 $|y| = k \cdot \frac{9}{x} + \frac{9}{x} = \frac{1}{x} dx / 3 \Rightarrow \frac{1}{y} dy = k \cdot \frac{1}{x} dx$ 
 $|y| = k \cdot \frac{9}{x} + \frac{1}{x} dx / 3 \Rightarrow \frac{1}{x} d$ 

(=) 
$$\operatorname{broly-aol} = \int \left(\frac{1}{x} + \frac{-a}{ax+1}\right) dx$$
 (=)  $\operatorname{broly-al} = \operatorname{brolx} - \operatorname{brolx} - \operatorname{brolx} - \operatorname{brolx} + \operatorname{c}$ 

$$\frac{bo}{x} + \frac{c}{ax+1} = \frac{bax + b + ex}{x(ax+1)} = \frac{x(ba+c) + b}{x(ax+1)} \Rightarrow b=1$$

$$c = -a$$

$$|y-a| = \frac{|x|}{|ax+1|} \cdot e_1 \cdot e_2 > 0$$

$$|y-a| = \frac{|x|}{|ax+1|} \cdot e_2 > y = \frac{|x|}{|ax+1|} e_4 = 0$$

$$|x-a| = \frac{|x|}{|ax+1|} \cdot e_2 > y = \frac{|x|}{|ax+1|} e_4 = 0$$

$$|x-a| = \frac{|x|}{|ax+1|} \cdot e_4 > 0$$

$$|x-a| = \frac{|x|}{|ax+1|} \cdot e_4 > 0$$

TO VITAT VI

1. 
$$2 \times x^{3}y^{1} = x^{3}+y^{2}$$
 $3^{1} = \frac{x^{2}+y^{2}}{2x^{2}} = \frac{1}{2} + \frac{1}{2}(\frac{y}{x})^{2}$ 
 $3^{1} = \frac{1}{2}(\frac{y}{x})^{2} = \frac{1}{2}(\frac{y}{x})^{2} = \frac{1}{2}(\frac{y}{x})^{2}$ 
 $3^{1} = \frac{1}{2}(\frac{y}{x})^{2} = \frac{1}{2}(\frac{y}{x})^{2} = \frac{1}{2}(\frac{y}{x})^{2}$ 
 $3^{1} = \frac{1}{2}(\frac{y}{x})^{2} = \frac{1}{2}(\frac{y}{$ 

$$g' = -\frac{x+q}{q} = -\left(\frac{y}{q}+1\right) = x \mod 2 = \frac{x}{x} \implies 2 + 2^{1}x = y'$$

$$g' = -\left(\frac{1}{2}+1\right)$$

$$\Rightarrow 2 + 2^{1}x = -\frac{1}{2} - 1 \iff 2^{1}x = -\frac{1}{2} - 2 - 1 \iff 2^{1} = \frac{1-2^{2}}{x} = \frac{2}{x} \implies 2^{1} = \frac{1-2^{2}}{x} \implies 2^{1} = \frac{1-2^{2}}{x} = \frac{2}{x} \implies 2^{1} = \frac{1-2^{2}}{x} \implies 2^{1} \implies 2$$

2 = -ln (-ln/x/-c)

y=x arcsim(1x1.c1)

1. 
$$y' + y \cdot t_3(x) = \frac{1}{\cos(x)}$$
 $y' + y \cdot t_3(x) = 0$ 
 $y' = -y \cdot t_3(x)$ 
 $y' = \frac{1}{3} = \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac$ 

y = 1 cosx1.c2

 $y_{p} = |\cos x| \cdot P|(1)'$   $y_{p}' = |\cos x - P \sin x|$   $P' \cos x - P \sin x + \cos x + f \sin x$   $P' \cos x - P \sin x + P \sin x = \frac{1}{\cos x}$   $P' = \frac{1}{\cos^{2} x} | \int |\cos^{2} x|$   $P' = \int \frac{1}{\cos^{2} x} | \int |\cos^{2} x|$   $P = \cos x \cdot \log x = \sin x$   $P = \sin x + \cos x \cdot C_{2}$ 

2. 4 + 2. 4 = x3 - y'+ 2 y=0 g'=-2(3) ( >) 2 x+2 =-22 2=05 (sing > y=0 not 2 = 2 => 2 x +2= 91  $2' = -32 \cdot \frac{1}{x}$   $0 = \frac{dx}{32} = \frac{1}{x} dx / S$ 9p= 1 /11 => 9p'= -(2xp+x2p') = x1p2  $-\frac{1}{3}\int_{2}^{1}dz = \int_{x}^{1}dx$ - 1 col2 = colx +e Cn 121-3= lm 1x1 ·C1 3 €, >0 121-3= 1X1.C1 3/2 = x.C./1)-1 -28+x81+28 = x 6 p2 3/2 = XC, /13 y! x 5 p2 - sam ogesit  $2 = \frac{1}{x^3 c_1^3} = y = \frac{1}{x^2 c_1^3} = \frac{1}{x^2 c_1}$ P= X6  $y = \frac{1}{x^2 \cdot x^6} = \frac{6}{x^8} \Rightarrow y = \frac{6}{x^8} + \frac{1}{x^2 \cdot x^6}$ 

$$\int_{0}^{1} y' + 2xy = 2xe^{-x^{2}}$$

$$\int_{0}^{1} y' + 2xy = 0$$

$$y' = -2xy$$

$$y' = dy$$

$$\int_{0}^{1} y' + 2xy = 0$$

$$\int_{0}^{1} y' = -2xy$$

4. 
$$xy'-y+x=0$$
 $xy'-y=-x/ix \neq 0$ 
 $y'-\frac{y}{x}=-1$ 
 $y'-\frac{y}{x}=0$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 
 $y'=\frac{dy}{dx}$ 

5. 
$$g'-g-sin_{0}x$$

2??

 $g'=g$ 
 $g'=$ 

$$\frac{1}{\sqrt{3}} = \sqrt{1-x^{2}} \cdot \frac{1}{\sqrt{1-x^{2}}} \cdot \frac{1$$