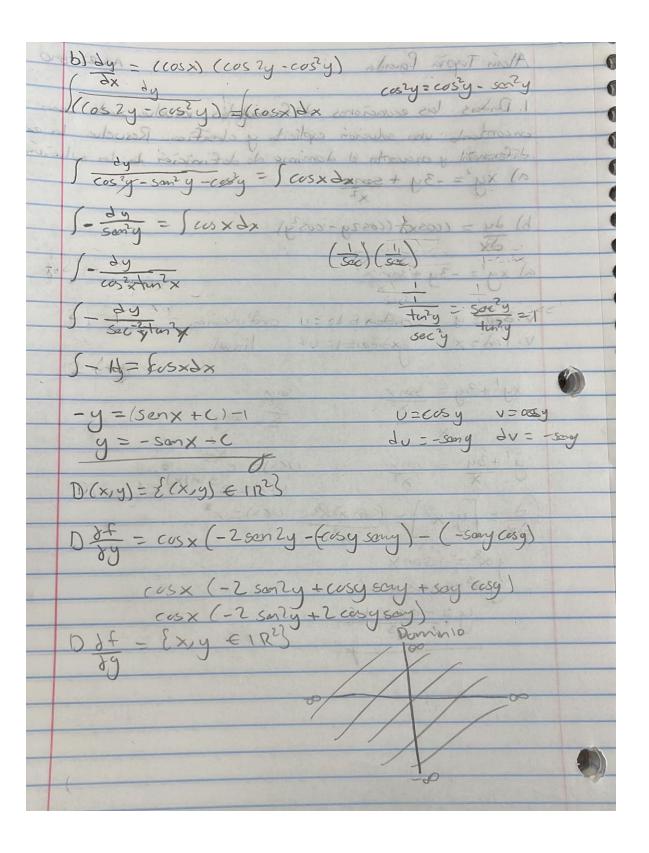
	1.002.200
	Alan Tapa Panda
	1. Dadas las ecuciones diferenciales, resuelve codo una
	explicitly of construent the control
	diferencial y encuentra el dominio de dofinición de la solución
	a) $xu' = -3u + sonx$
	a) $xy' = -3y + \frac{500}{x^2}$
	b) $\frac{dy}{dx} = (\cos x) (\cos 2y - \cos^2 y)$
	2×
	(x) (x)
	v. des = u ordinaria
	V = 0/2 - 1
	V. ind=x grando =1 lineal
-	
	$xy + 3y = \frac{\sin x}{x^2}$ $\frac{\sin x}{x^2}$ $\frac{\sin x}{x}$
	TO THE STATE OF TH
No. of Co.	- v4 × × × × × × × × × × × × × × × × × ×
	$y' + 3y = \frac{\sin x}{x}$ $0(x) = e^{\frac{\pi}{3}}$ $0(x) = e^{\frac{\pi}{3}}$ $0(x) = e^{\frac{\pi}{3}}$
	$\left(\frac{\partial}{\partial x} = \left[\frac{y}{x^3}\right] = \left[\frac{(\cos x)x^3}{x^3} + \frac{(\cos x)x^3}{x^3}\right]$
	12x - 13 - 13
	3 - (smx
	$y x^3 = \int s con x$ $y x^3 = -cos x + C$
	9 x 5 - 205 x + C
	y z - cos x + C + x 3
	V X



ranac	2. Resulve el problem constamater un layo con broses civedado.	~
	The second of th	
	V = 1000 KL (SCO) = 2 KyKI	1
	Re= SKI/hv $VS=2KL/hv$ (S=Q(F) Ce= $7Kg/KI$, (C=?	
	dQ = S(7) - 2Q (Vex) = C	-1
	dt (3) + 1000	-
	20 = 35 - 20 35 + 1000 dt	
	16	
	2Q - 35 - 2Q 3 1 trioud	
	de 3++1000- 400x(++1000)-1/3	
57.6	2 (+ 1000)-43) = 35 (+1000) = (+1000)-43	71
	35 S(++1000) -2/3 d+	
	Q(+ 1000) -2/3 = 105 (+ 1000) ×3	
	$Q = 105 (+1000)^{1/3} + C$ 35 ((+1000))'s	
	(+ + 1600) 3/3 A	
	Q = 105(t + 1000)	
	Q19=105+105,000 35[3(++1000))	3
	(S = 10SE + 10S, 000 +C	
	3 € +1000 1= 105€ + 105,000-103,000	
	2= 105,000 + (3+1000	
	1=105+7,000	
	2000 = 105,000 tc 3t+1000	
	ez-103,000 3t +1000 = 105t+2000	00
	105t-3t=-2000	
	t=19.6 hr	
	-(98,414 107)	

