ACTIVIDAD 1 PARTE B: ECUACIONES DIFERENCIALES SEPARABLES

Actividad somana I porte E	xtxut= e6 3
1. y'= \$\frac{x}{59}	U
9 39	zat cota
$\frac{dy}{dx} = \frac{x}{\sqrt{y}}$	xate = 06
Sty dy = Sxdx	/
V4+1 32 2 1 3 . x2 1	C=G-C2
$y^{1/2+1}$ $y^{-3/2}$ $2\sqrt{y^3}$ $+x^2$ $+C$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{3}{2}$ $\frac{2}{2}$	y = Box (prod)
2	as al no all sell
2. y'=x+y	(ex) mizzip f
No es squable ga que no es	on producto
3. y'= ln(xy) y'= lnx + lny no es soquede ya que no a	C-18
g=lnx+lng	2 to business xx
no a squirior garage is	+ Maria I = V/A
4. dy = lnx+x	-
4. dy = Inx+x Iny+y	EX-XIIII = 47.1
(hytyldy & lnx+x)dx	KT A00+ 3-10011
1010 C 1 102 = 11 1 C = 11 1 1 2	
glncy) +y2 - y + C1 = x lnx1 +x2	-x+6 C=C1-C
uln(u) +u2 -u= x1n(x) +x2	126
y ln(y) +y2 -y= xln(x) +x2 -	XXX
5- y'= yesinx+cooy	
dy ye cosy, esinx	
9x 0	1 3 1
ye cos dy = esinx dx	1 - 1 - 1 - 1 - 1
	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	-

6. dy = lnxdx Jag = Slnxex In (y) - (1 = x ln (x) - x + (2)
In (y) = x ln (x) - x + C C=C-C; 7. y'= sin (x3)
No es separable ya que ninguna propied
pormite torer en producto que produ
separado 8-y'= ysinx +xy
dy = y (sinx +x) 1ng = (sinx+x)dx 9. y' = xy+y 2x 3xy 2-39 dy = (x+1)dx 25 = 53x+5=x 21ny)-3y=x+lnx+c c=4-4

10. y'= xy -2x +y-2
10. y'= xy -2x +y-2 dy = x(y-2) + (y-2)
$\frac{dy}{dx} = (x+1)(y-2)$
Jay = Sxtldx
In (g-2) = x2 +x + (<= (2)