	May and the state of the state	
Lyell C. Read	CH12.4- REVIEW	10/24/2018
12.4 PARTIAL DERW	ATIVES	F(X Y): (NOTE: KNOW YOUR DERIVATIVES)  (I.C. B., X., In (X)  and product, chain
- Laic F = Deriv	intive of t(x,v) trea	f(x, y): and product, chain ting all non-x var's as const.
→ Calc fy = Derive	ative f(x,y) where	all non-y vais are const
· First Deg. P. D. Usi	ng limits: for fe	x,y)
	$\lim_{h\to 0} \frac{f(a+h,b)-n}{h}$ $\lim_{h\to 0} \frac{f(c,d+h)-1}{h}$	C(c,d)
· Second Degree P. 1	Dis: for function	f(x,y):
Second: fxy	would be fx der	n agan on result for ived with Y
12.5 DA CHAIN PI		
$\rightarrow f' = \frac{\partial f}{\partial x} \cdot \frac{\partial x}{\partial L} +$	3f. 34 F = x-	ref another var, and so 1sy -+
· f' for f(x,4) where	- x(s,+), y €s,+)	f< x =+
	another term,	dx dx + dy off
solution process:		

x=, y=, z=... and simplify

+ ( + = s (1+ appli)

2 -+ s (1+ appli)

s (1+ appl.)