	(01)	2	
DIPLÔME : .	Proble	m O	

Université Lille 1 Sciences et Technologies

Composition de :

## **INTERCALAIRE**

N° F	PLACE INDIQUEZ VOTRE N° de place  Si votre composition comporte plusieurs
-	
	$y = f(K, l)$ labor $f(K, l) = K^{\alpha} l^{1-\alpha}$
CKINI KULATA	Respital equipment parties of the apple
	intput ("tacus") =0 15 x 21-2- 9 = 15 KIE1 = (7)
1 K, 2 d) = 2 + (1-x) 1-x	1 -11 1-81
(1/2/1) = 21/2/12	
= 216"21-4	and set $B = 7^{1/2} > 0$ K(U) = $B L^{-1/2} = B$
Constant	
Constant (3) Returns (3)	
to Scenke	alphe d type 11-1/2 - 1 where 13=1
	isogrant Thu, & & k are
	with compliments! Is
	(K, l)-space 15
	Magabel P. 1 1 24 2 MP. all possible (K, l)
	Marginal Product: dy dy Mr. combinations, this g
Wote 1	
luys be	1
reprefy chursily	a now of
inal factor	ake 11- a = ak a-1 l'a = ak a-1 Subjection - Mpk
is where:	
TRS =-MP.	R)=-(1-2)(K) (L) MPQ
MP2 .	
$\frac{-\frac{\partial x_1}{\partial x_1} - \frac{\partial x_2}{\partial x_1}}{\frac{\partial x_1}{\partial x_1}}$	TRS=(2-1) K & dl not dk although
·y	(tr 1 20) PP 1 2
	(Y, w) - oprices of factors)
	p" - not put price I Tt= py - wl-rk
	So the Profit maximization problem
	(is max $\pi = \max py - wl - rk$
	S.t. y=fckl= Kali-a

C(y) = wl-k s.t.y=f(l,10) let c(y)= = = = = K(l) = we = -we isocost line Short Rin K= K Why? we have to Chall is DR. s. Why? 2 [77] Solve may TI mospy-wl-rk becaus h(Al) (1h(l) き(アイ)-えんしきひ or Fixed Cost L S.t. Y= KIT P (Show it!) Talking first 12 3/4 = M A cest order conditions (pdy=w Marginal 7 product of labor = Marghal Cost This is the by the price gives value Won, the Optimality Condition to leng Kin Satsty Sdving: (P) (1-2) (R x) 1 (lest question) may p.fcx, el. wlock On the long run, the firm Chevres (k, e) to Comparative Statics maximite Profit (B) it you increase P, (1-4), K,
then I' A (why??) P. 2f = w Sprimality
P. 2f = w Conditions Marginal - Murginal Valve Cestof ok factor factor