



Produ	ıctio	n Fur	nction	Using	Labo	r and (	Capital
Units of Capital		Uni	its of Labo	r Emplove	d per Mon	th	
Employed per Month	1	2	3	4	5	6	7
1	40	90	150	200	240	270	290
2	90	140	200	250	290	315	335
3	150	195	260	310	345	370	390
4	200	250	310	350	385	415	440
5	240	290	345	385	420	450	475
6	270	320	375	415	450	475	495
7	290	330	390	435	470	495	510
<ul> <li>The firm proto</li> <li>the combination</li> <li>technologication</li> <li>Compute matrix</li> </ul>	duc ition ally argir	es the of re <i>efficie</i> nal pro	e maxi source ent oduct	mum j es emp of labo	possib ployed or (aiv	le out → pro	put given oduction i pital=1)
			5	240.20	0_40	0 0	
	-0		57	240-20	0-40		
	50		6-)	270-24	0=30		
<b>≅ 3→150-90</b> =	=60		8-	200-27	0 - 20		
¤ 4 <del>→</del> 200-15	0 =5	0	0 /	270-21	0-20		
							3

	P	rodı	uctio	on F	unc	tion					
Units of Capital	Units of Labor Employed per Month										
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Marginal produ returns	uct of	flabor	first ris	e → ind	creasing	g margi	nal				
• Then declines $\rightarrow$ diminishing marginal returns											
<ul> <li>So does the marginal product of capital.</li> </ul>											
<ul> <li>Different comb output</li> </ul>	oinati	ons of	resourc	es yiel	d the sa	ame rate	e of				
<ul><li>Several comb</li><li>Next slide pr</li></ul>	oinati ovide	ons of lass anoth	abor and er persp	d capital pective o	yield 29 on this ir	90 units Iformati	of output on <sup>4</sup>				





























