:	MATH 101. PRACTICE PROP	TEN			~~		\sim		\sim	~		\sim	$\overline{}$		\sim		
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	A company makes gadgets A and B. The production of each re	emires tir	me on	macl	hines	τ .	1	:			:	:		•			
	II, and III. Gadget A requires 2 hours on I, 1 hour on II, and						1	[A	. 1	10	•	5	3:	00	٠٠. ···		
/ 八寸	requires 1 hour on I, 1 hour on II, and 2 hours on III. The time						ļ										
1							İ	N	lox	. ,	Dre	っよく	t =	\$	5	ם מ	57
; ; · ·	per week is 200 hours on I, 140 hours on II, and 240 hours o						-				1	ļ. . .	Ī	1.7_			ـــ المـــ
	is \$90, and the profit on each B is \$120. The company can sell			. HOV	v mai	цу	}	,				:				İ	
	of each should it make per week to maximize profit? What is t	hat profit	:?						- 1			i	j	}	<u> </u>		[
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(2)	A dairy company processes milk at two locations. Its Arlington						į	LΑ	rliv	19	to	^:	l	ا کا ا	<u>148</u>		
	of 4% and 100 gallons of 2% milk per hour and costs \$168 per	r hour to	opera	te, wi	hile t	he	-	(: .		:		•				
	Marysville plant produces 100 gallons of 4% and 150 gallons	of 2% r	milk p	er no	our ai	nd .	i	$M_{\rm c}$	ON	45	V-11	۱.e.	1 -	えーしん	Y 5 -		
	costs \$288 per hour to operate. The company needs a total daily	production	on of	ät leas	st 120	00				′			-			→	
	gallons of 4% and 2250 gallons of 2% milk. How many hours	per day	shoul	d eac	h pla	nt ·	ļ								j · · · j		
	operate to minimize cost?		:	. !	, ;				1				į .	!			;
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	A former has 150 come of land an unlist he areas			, TT			to							•		į	į
(3)	A farmer has 150 acres of land on which he may grow of									50		Cr	es-	·c	>f-		
	plant the wheat and the corn are \$20 per acre and \$10 per								-						4-c		į
.	at most \$2000 to spend for planting his crops. He alread	y has acc	ceptë	d ord	lerș v	whic	h "			YN.	201	t	a	<u>^</u> d-	4-G	0	
į	require that he plant at least 10 acres of wheat and 20 a	cres of	corn.	His	prof	it pe	er		l i	i		: :	;	:	r-17		
	acre is \$150 for wheat and \$120 for corn. How many ac										'حو''ت		3			<u>ٔ</u> لـ	
	to maximize his profit?					<u></u>	ş.,							ļ			
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(4)	Production for Maximum Profit A toy manufacturer			- -		-q	ļ								1	أوسون	
	preparing a production schedule for two new toys,	-	+>		lo	tr	uc	ķĒ	, 2	صر	Sp	וראוג	nv	29	(O	ررحر	
	trucks and spinning tops, must use the information						 		-								
, l	concerning their construction times given in the					7	110	?								į	
('r	following table:	1	-T														
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	Machine A Machine B Firmshing						ļ										
		(a)	Min	eral I	Extra	ctio	n A	COII	ıpany	ext	racts	min	erals				
	Machine A Machine B Finishing		Min fron	eral I	Extra The	ction	n A	com	ipany ound	exti	racts	mine	erals A an	d B			
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	Machine A Machine B Finishing	<u></u>	fron that	ore. can b	The oe ex	nun traci	abers ted fr	of p	ound each t	s of 1 ton o	mine of ore	rals . es I a	A an nd II	d B are			
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	Machine A Machine B Emishing Thruck 22 hr 32h 25 hr		fron that give	ore. can t n in t	The oe ex	nun tract	abers ted fr	of p	ound each t	s of 1 ton o	mine of ore	rals . es I a	A an nd II	d B are			
	Machine A Machine B Fruishing Thinck 2 hr 32hr 54ar Spinning Fop 4 hr 54ar	_@	fron that give	ore. can t n in t	The be ex he fo	nun tract	abers ted fr	of p	ound each t	s of 1 ton o	mine of ore	rals . es I a	A an nd II	d B are			
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	Machine: A Machine: B. Finishing Thruck 2: hr 32h 52h Spinning: Fop 1 hi 32h 1 hi For example, each truck requires 2 hours on machine A. The available employee hours per week are as follows: for operating machine A, 80 hours; for B, 50 hours; for		fron that give	ore.	The pe ex he for ores	nun traci ollow s:	nbers ted fr ving t	of prome able,	ound each toge toge	s of iton of their	mine of ore with	rals as I as the o	A an nd II costs	d B are			
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