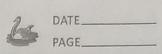
Monday - 9-11 Wed - 10-11 Thurs - 10-11

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Theory Project Paper



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4 January 2021 (Lecture - 1) a sidah	: 354
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LPP - Linear Programming 1	Problems	[Freeker]
	3	Mirk
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2) LP Assistant (f	n LPP	AMAINA 9
1) TORA 25 2) LP Assistant JE 3). Excel	oftwares on LPP -> Inbuilt Mall	nods
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(The Real Life Problem)		109 (a)
	4-11	
- Machemat	tical Modelle	ing
Mat hematical Problem). FiV
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9	A STATE OF THE STA	43131311
LPP -> Divide unto 2 Pards	8 , A , B	Moviesh
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Todelling Methods	a sugar	
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Diet Problem		
1) Optimize (ost & n	Find an	
2) Constraints	* AND WATER	
) Comment of the A	PiG = No	Constant
(soal -) minimize the cost of us need to meet the d	aily mini	num rut.
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	0.10.	Banana,	orange,	, aggs, (amos	
foods:	Apple,	Protein,	Iron		and.	
Nutritions:	Vitamin C,	Protein	UH-C	Isan	Price	
Food	4	0.4	6	0.4		
Fold	生	120.4	126	0.4	2	
Apple	1		10	0.6	108	
Banana		1.2	3	0.4	2	
Orange	1 1 1 1 1 1 1	0.6			3	
eggs	2	0.6	0	0.2	20	
Carrot	1	12.2	0	2.6	15	
Min Req.		70	50	112		
					1	
Protein	in glu	unit	A			
Vit.C		ng) unit	nd lowbon	Mathem		
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Price	in E	J. Aller	1273			
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Variable	'00 · A	BOU	PX C C	-> (0		
300000000000000000000000000000000000000	(,	1		Car	nat	
Variables: A, B, O, B, E, E \(\tag{aggs}\) Abble Barana \(\tag{aggs}\)						
	= +1	mt 11	War	1201	DA STORY	
	- + 6	Le cents	of food	daily re	9	
= # of units of food daily req.						
Cost function $\rightarrow Z = 8A + 10B + 30 + 20E4$						
1 STOCK						
ne need to minimize this gn Constraints > 0.4 A						
minimi ze this for						
Constraints -> 0.4A +1.2B+0.60+0.6E						
+12.70						
:. 0.4A+1.2B+0.60+0.66+0.66+0.66+0.66+0.66+0.66+0.6						
		301	0,66	112·2C	> 701	

6A+10B+30+E+0c > 50 0.4A+0.CB+0.40+0.2E+7.6C>12

A, B, O, E, C >, O

This Model is LPP Model

Linear 2ans

Objective of no

Product Min Problem

Products A & B
Resources R1 & R2

for each unit of product A, we require I units of RIZ Z units of R2

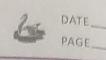
For each unit of product B > 1 unit R, 2 unitrof R

Manufacture hors 5 unit of R1 & 12 Unit of R2 3 Availability

Manimize Projet

Progit on A & £6 per unit

Goal is to manimize the prefit



LP Model

Products	R	P2	Projet (perunit)
A		3	6
B		2	50 AA
Available:	5	12	
monuterble:	3	12 SA SA	TI A TANKA

n= # of units of A produced 3 Decision
y = # of units of B produced 3 Variances

Z=6n+5y

G Momimize

Subject to Constraints

n+y \ 5

3n+2y \ 5 12

n,y > 0

Non-negative

Objective Non-negotivity restrictions
function (Ahvays in IPP)

Variables -> Pecision Variables -> in LPP eg n,y above