"I am aware that any forms of cheating in this exam will result in a zero grade and a disciplinary invertigation. I accept all rules and regulations reporting whithe exams. I sive permission for the processing of my personal data as stated in the clarification text provided on the foculty of Engineering website."

DA type I three times of much lober type 2

Total USD - type 2

market limit type 1 → 100 - type 2 → 300

Profit type 1 → 48 - type 2 → \$5

maximise profit

a) Built motheroffer model.

Desicion	voriables		<u> </u>
	type		
	type		

La 1) way

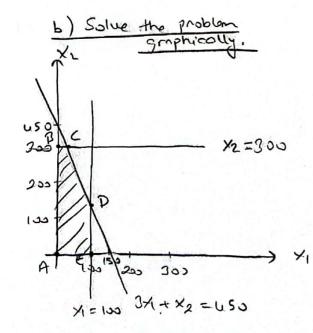
objective Funation

$$2 = 8 \times 1 + 5 \times 2$$

Canstraints 3x1+ x2 (450 x1 (100 x2 (300 x1, x2), 0

$$34/4 \times 7 = 050$$

 $14/2 = 0$
 $14/2 = 0$
 $14/2 = 0$
 $14/2 = 0$
 $14/2 = 0$



	×ı	XZ	a = 8x + 5x2
A	0	0	0
\mathfrak{B}	O	300	1500
c	50	300	1900 (mox)
D	120	150	1550
٤	100	٥	CC3

to maximize profit $x_1 = 50$ and $x_2 = 300$ $x_1 = 300$ $x_2 = 6x + 5x_2 = 1900$