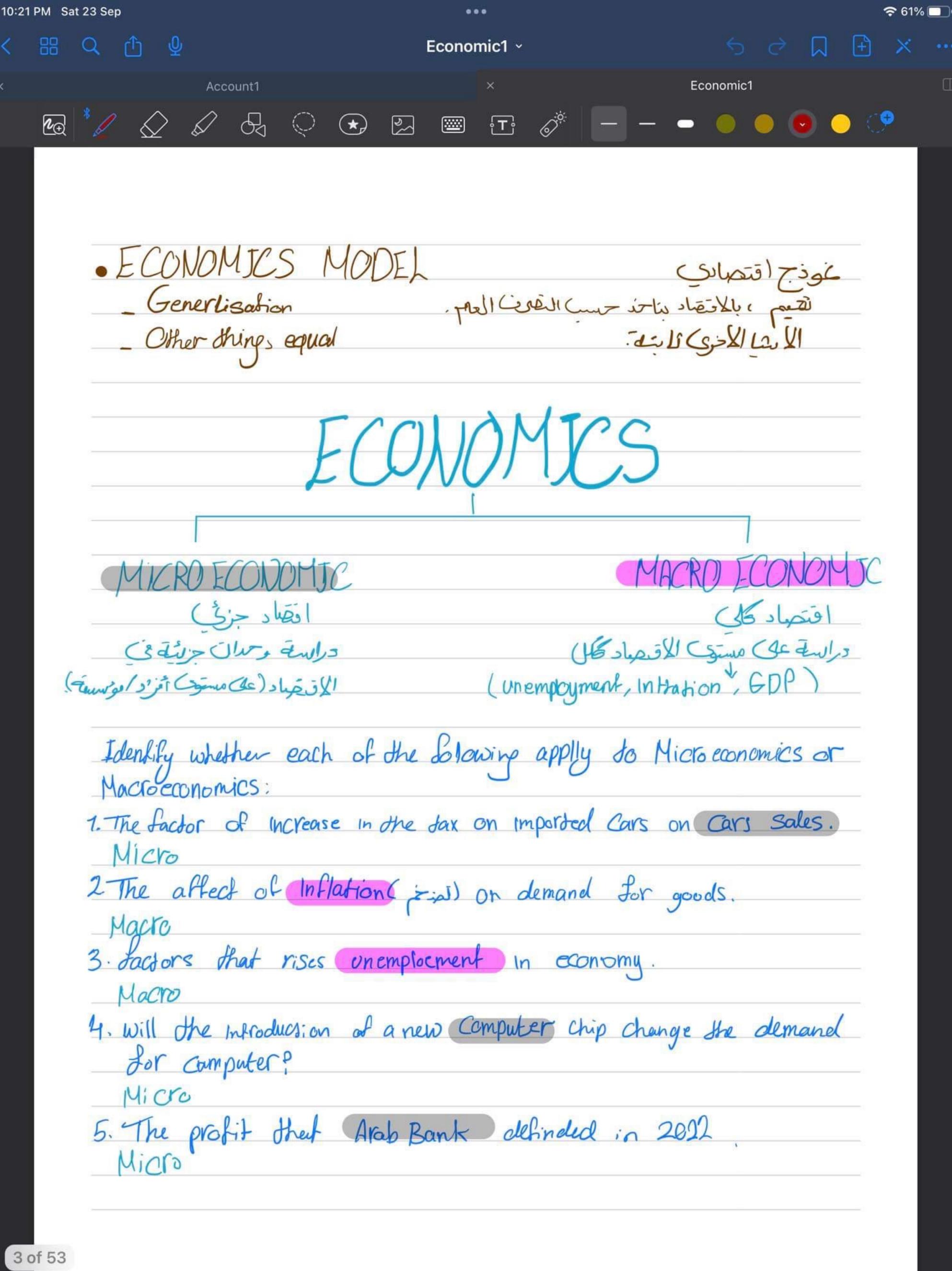
PRINCIPLES OF MICROECONOMICS ECON131

DONE BY: DIANA ALI

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· Retional Behavior > MB> NC













奈 60% □

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Economic1





























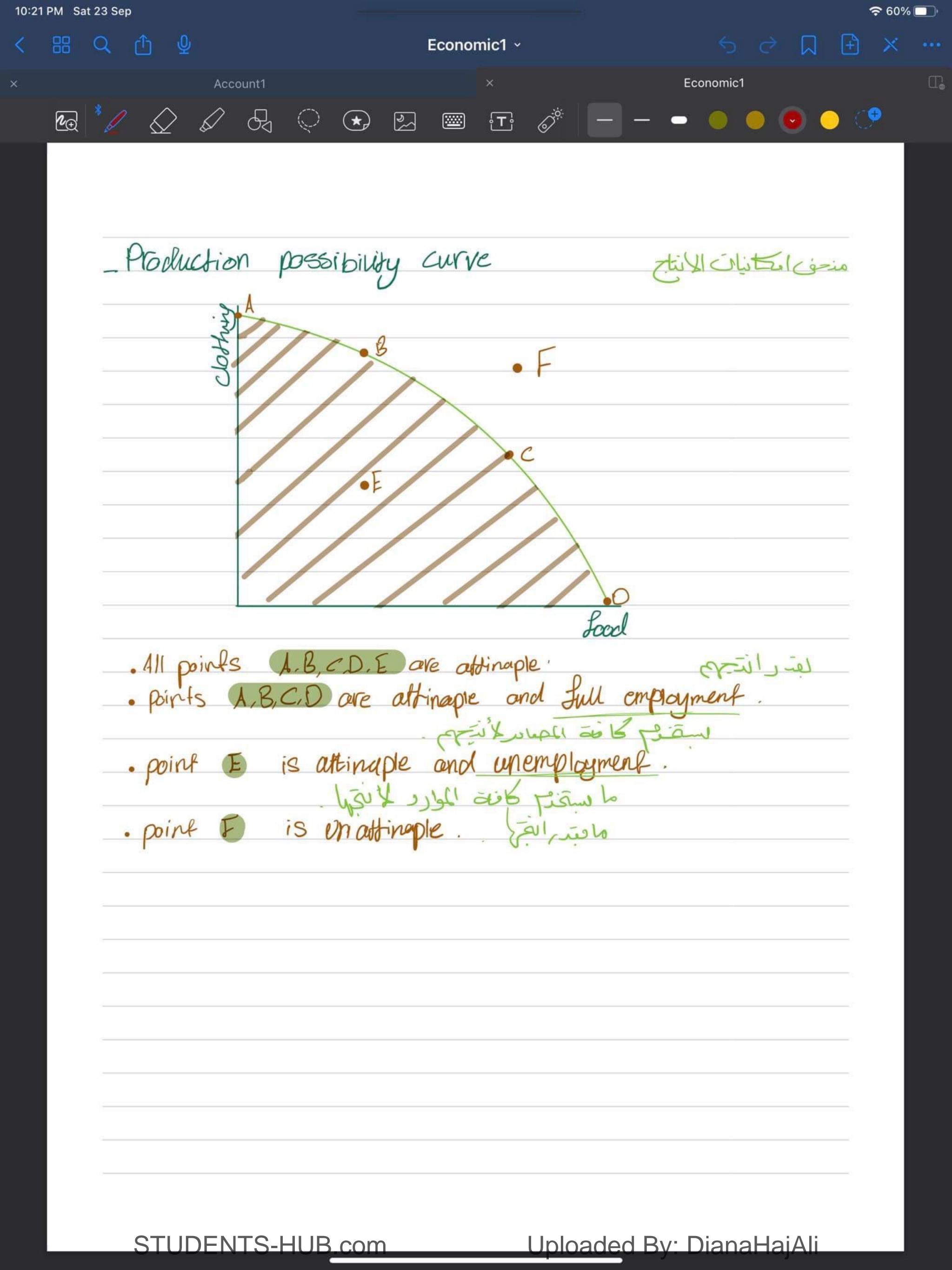




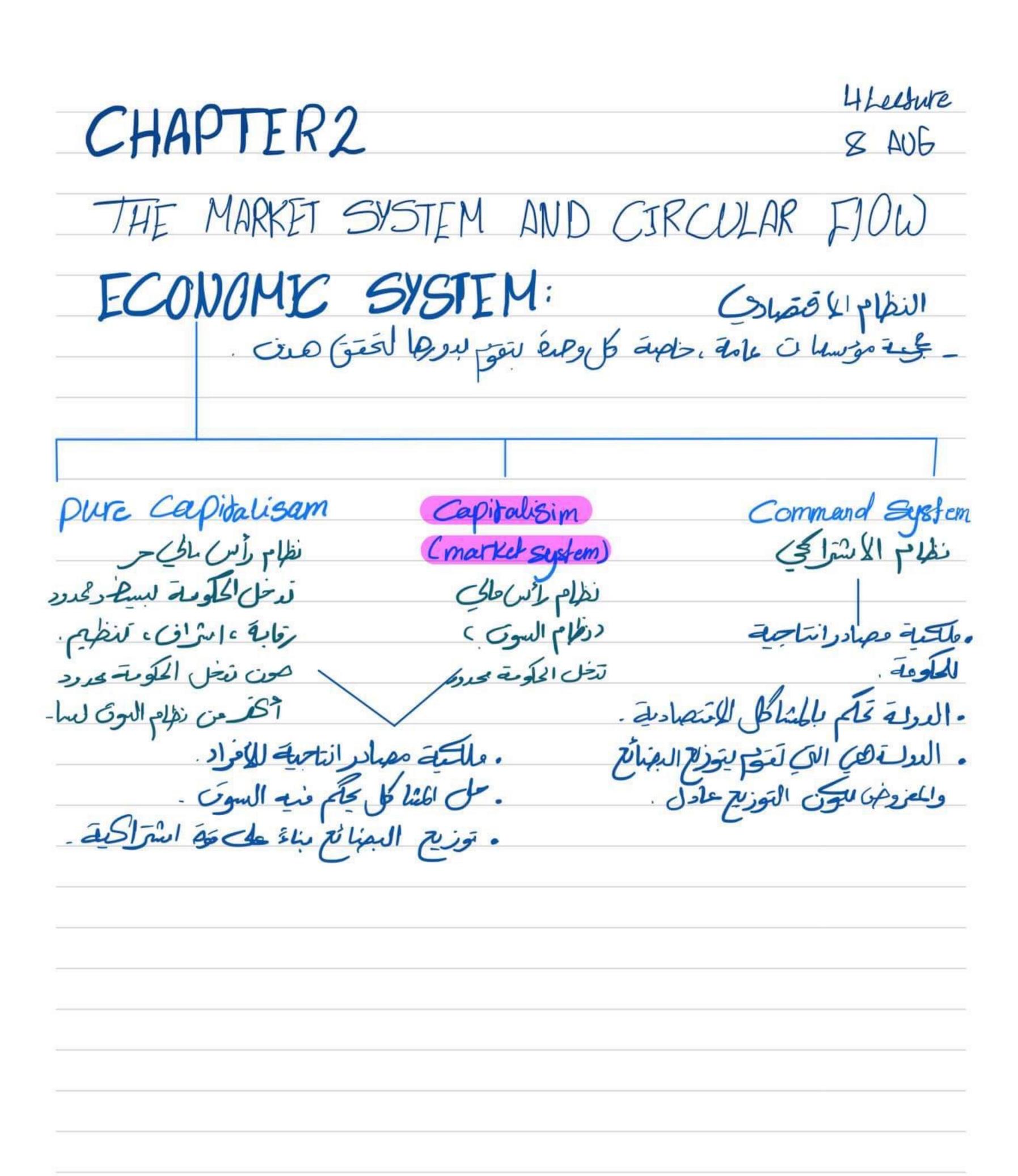


ECONOMIZING PROBLEM

- Individual Economizing problem: limited in Income and Unlimited wants. . die Bi Unliet aliezed to
- Society E Conomizing Problems: Limited vecources and unlimited wants. Essessie Third alie to Processing
- 30 Puemis Col C59 1 60 \$1
- 2. Labor 15
- 3 Capital The of
- 4. Enterprenuar Apility (osls) pasitille [1) XI
- is) we unless efficient and inter (inter line lum and list
- Natural Gas Land
- Office Computer Copital
- Minerals Land
- Forest
- Computer program Lapor







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Account1

Economic1



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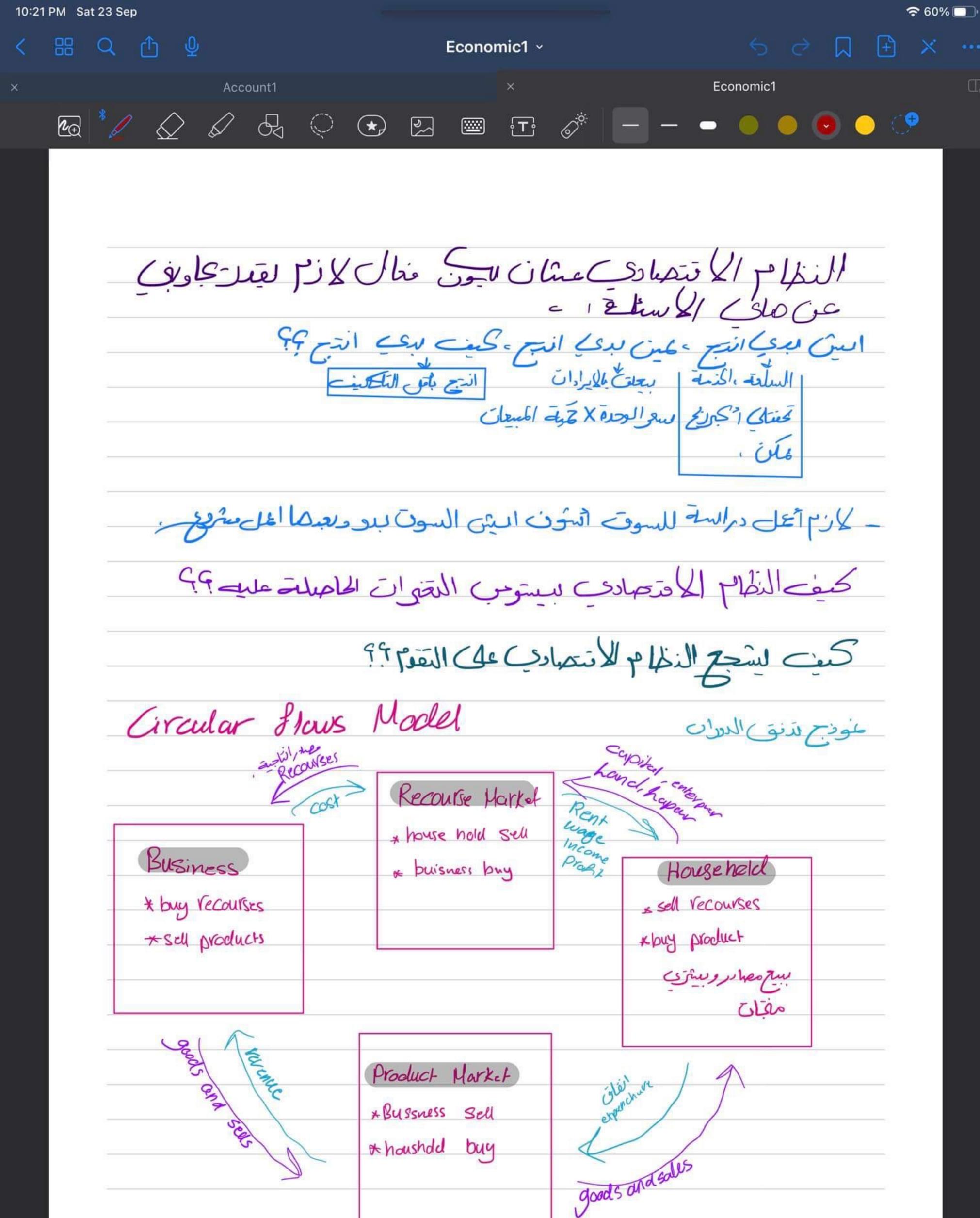


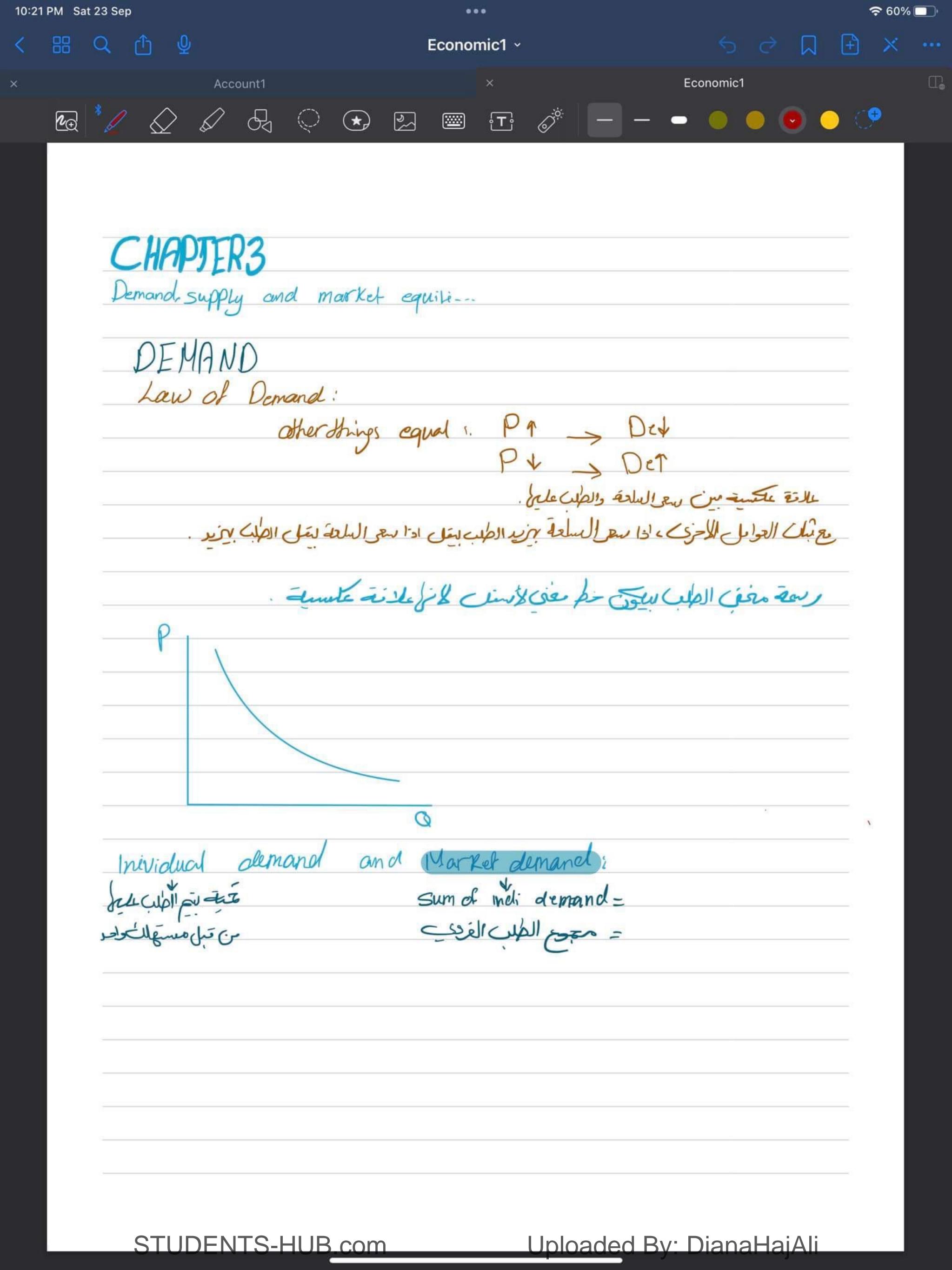






Charactestic of the MARK	ETSYSTEM.
1. Private property	d=: 11 001:21 201== 41
1. Private property 2. Freedom of interprice and Choice	مرية أختا المنشاط الافضاعي
. 3	حرية اختيارا ي ميروع بس المازم عيس مانو
3. Self Interest	· austrell 75hebl
anexis de son in plas es res ades ix memo	-
4. Competition	اطنافنسة
JE 1 2	Enilio 1) (jugu (3
منتج واحد (س الحنمات عنذنا : كهل مي)	Curriell CXI
مَعَيِدُ الْعَلِيمَ أَمَلَ	نظم السوف كمية الانتاج هي أكلى
أسطار أعلى	The state of the s
5. Market and Price	سيع هاي انسار أقل حسب العرض والملب
لا التحارة و ريفال الأليات العالمات ما التحارة التحارة التحارة الماليات الأليات الماليات التحارة التح	
يد العكامة ريفلل الأنبي العاملة.	التاسكولوسا تنقل التلتكيف ويتز
J. Duck of Zon on	, TWY 3 OF GEO
فعة تحيل القطام العام لقطاع خاص.	الخصعمة عفي القصيمي، المفع
8. USC OF Money	1 Ultrul
مهاری	زمان كان منم فقايمة فلاجاره
ق على العلمات العام لفطاع خامى . 8. USC 08 Money 9. Active but Limited CeVermen . نتل عديد السلفة مثلا . الماء العام مثلا . الماء السلفة مثلا . الماء السلفة مثلا .	تخل معدود للحكومة.
، منك كذب السلعد مثلاً.	اذا البيرة بنيكل الملوعة لازم تدخل
्रिक दिया क्रियु कि दिया	مين علون تعدمم معلو
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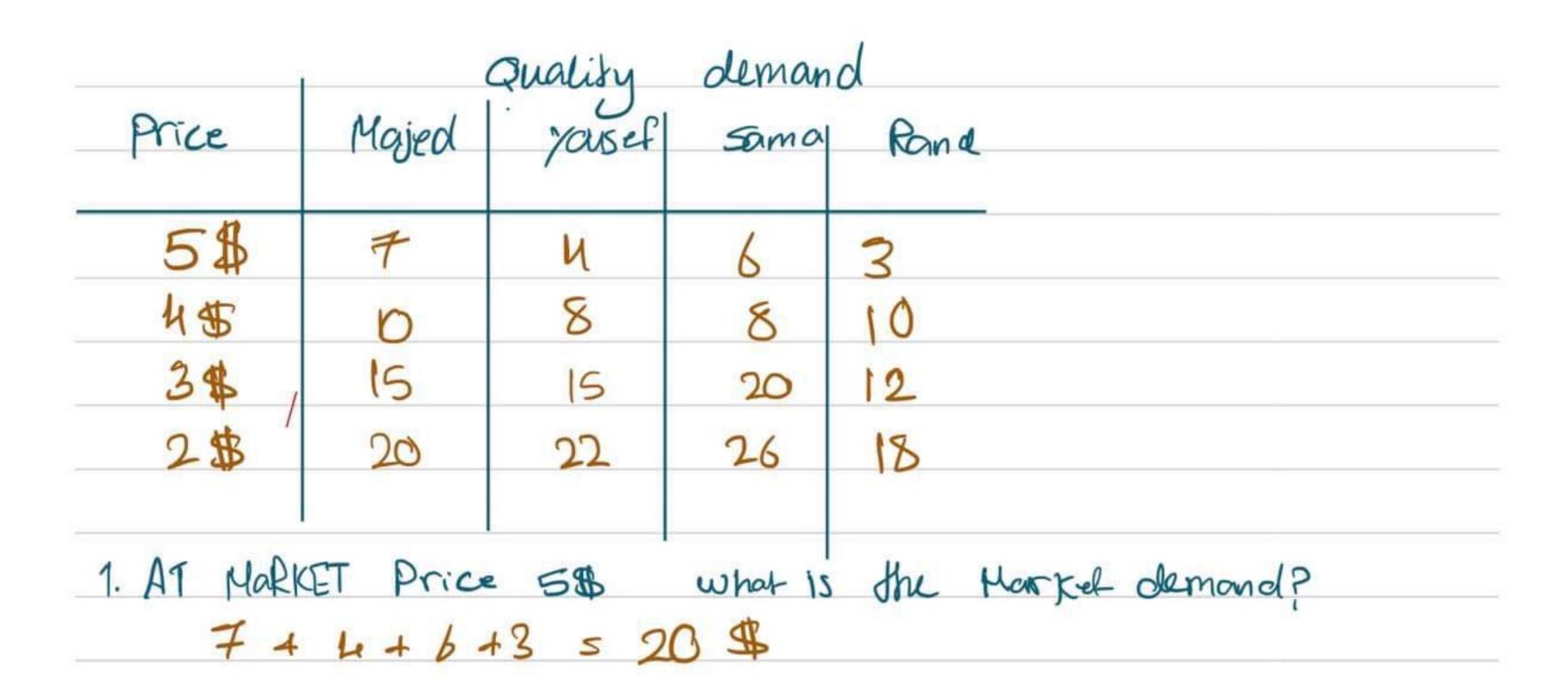




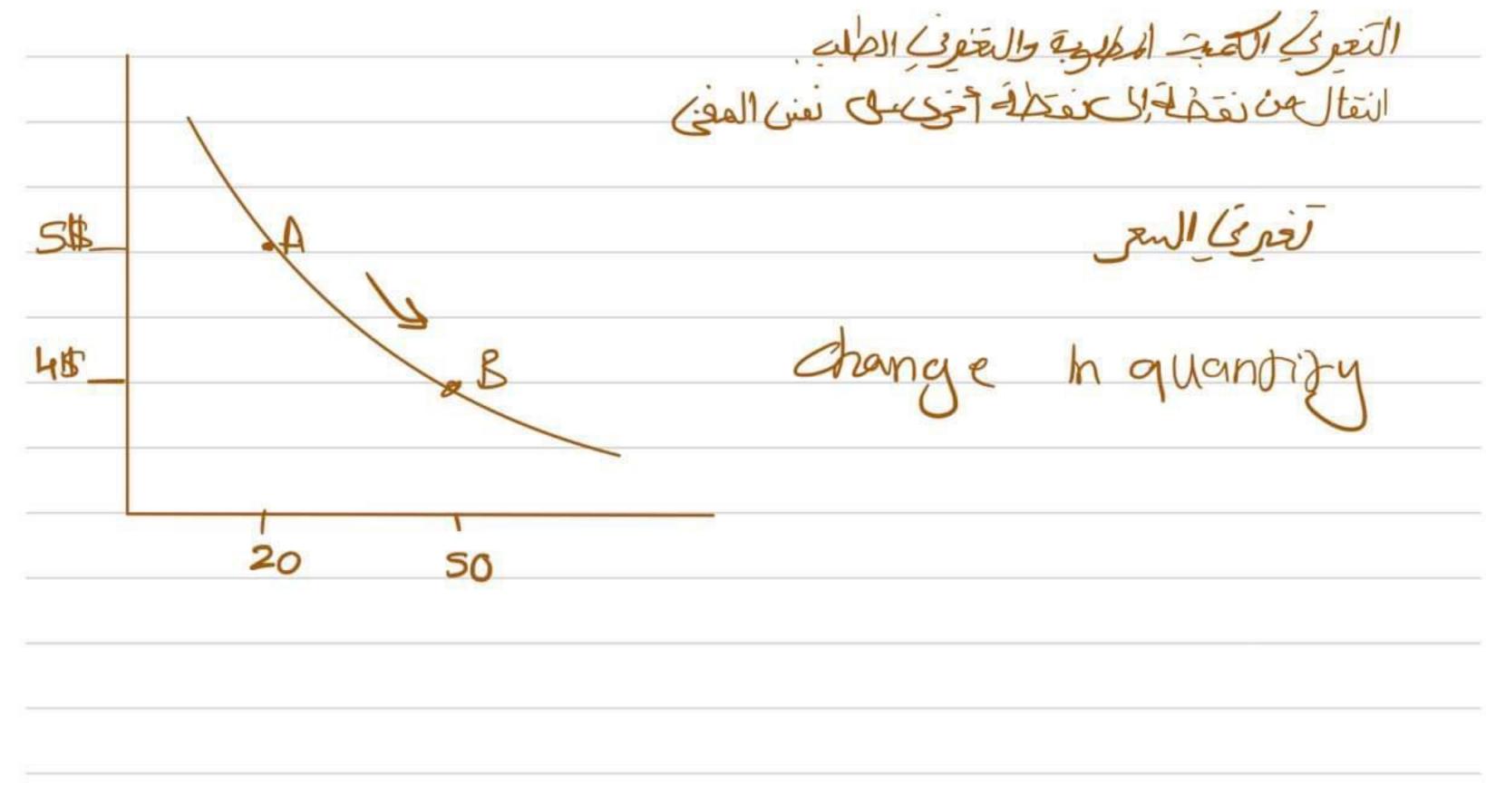
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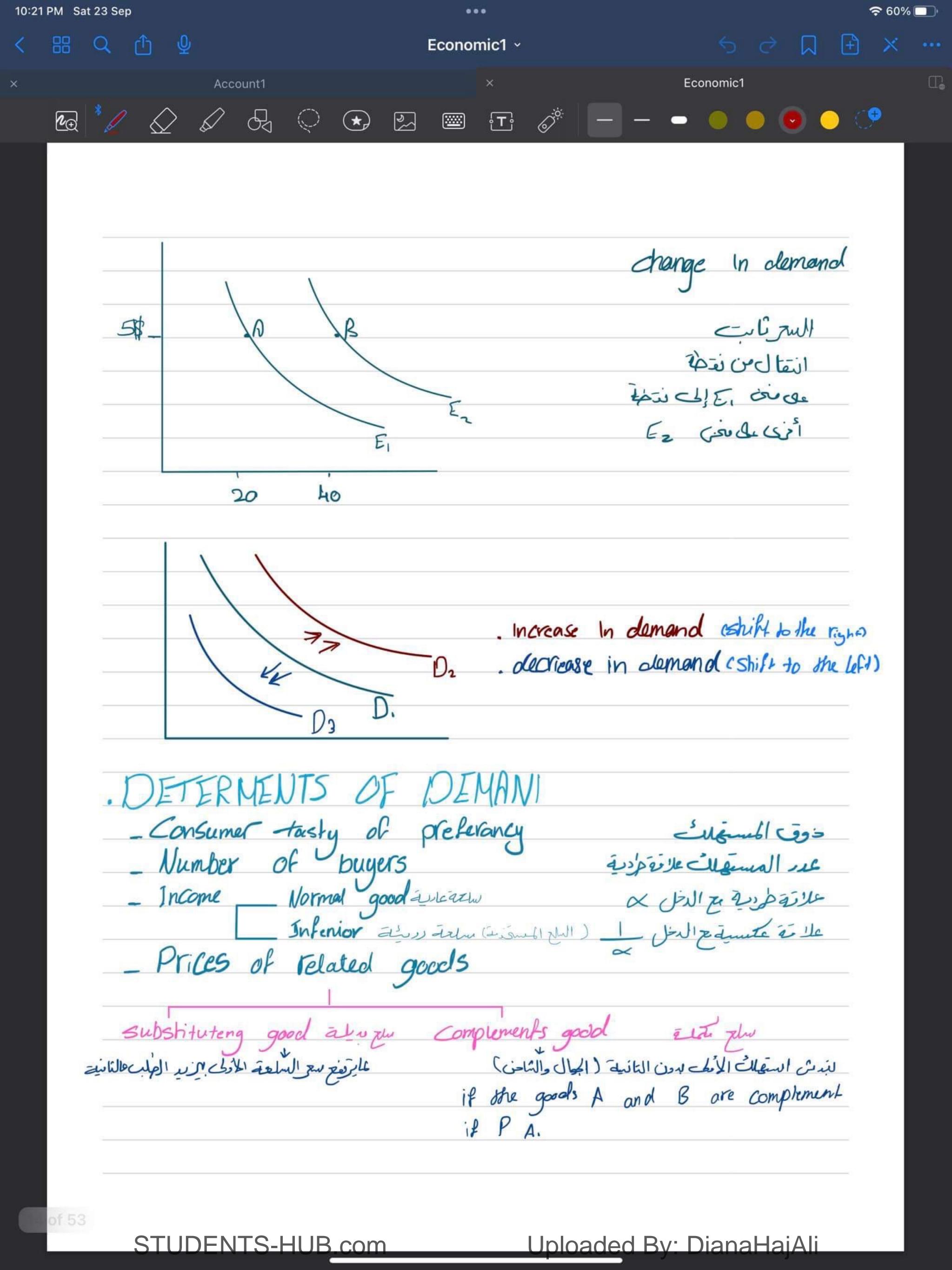
Economic1

Account1



Change in quantity demand and change in demand.





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Account1



Economic1







































































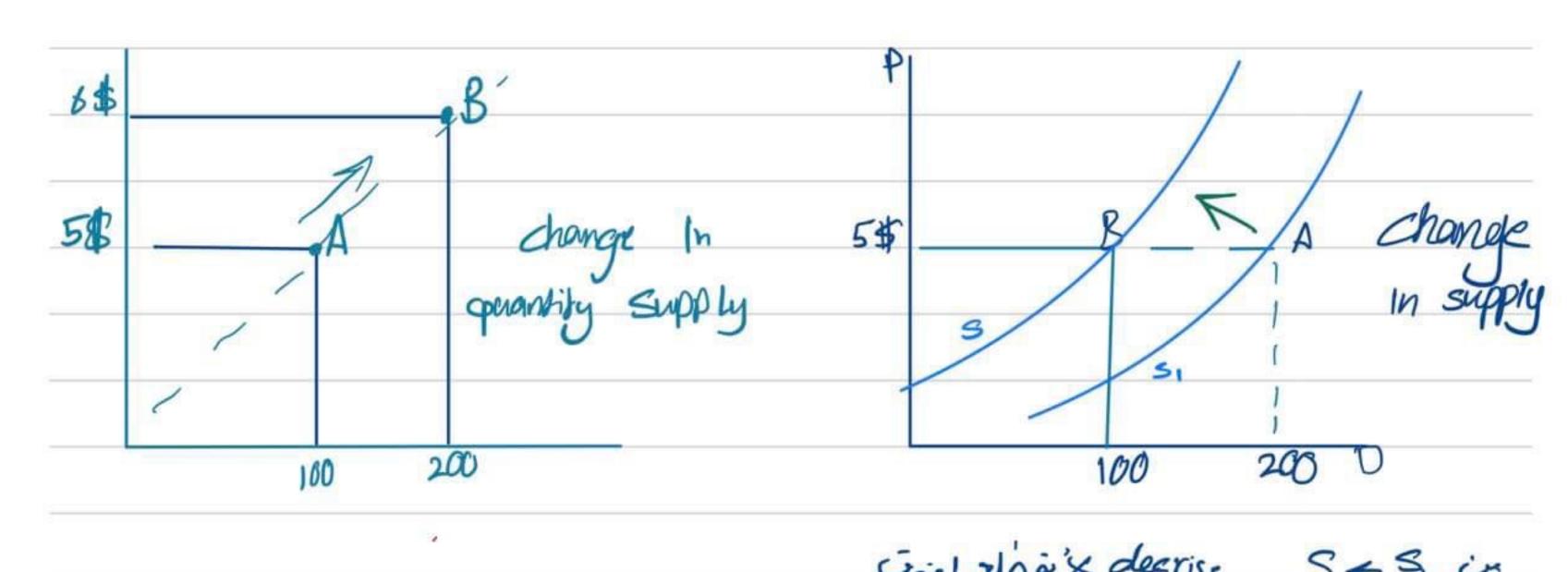




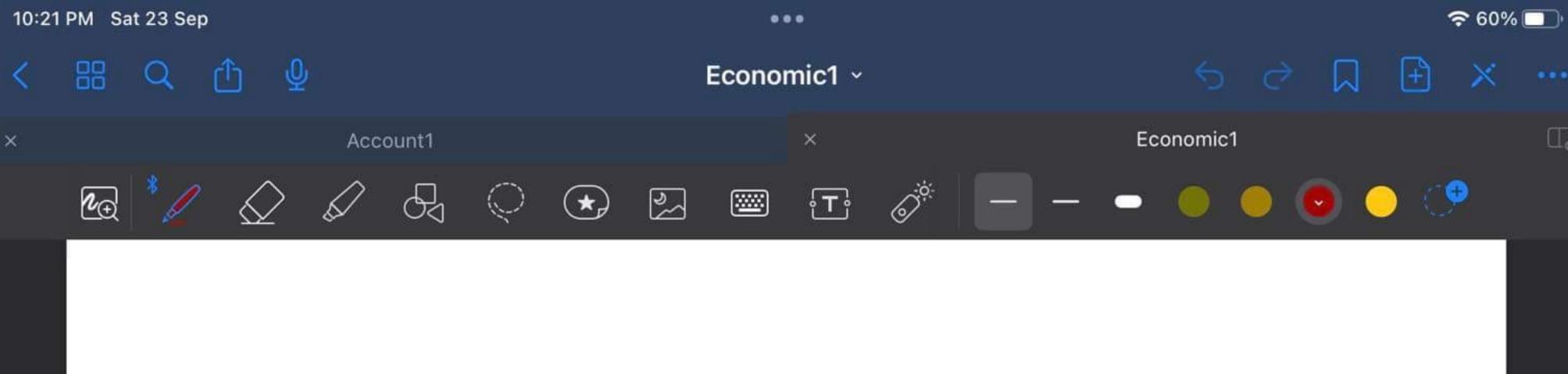


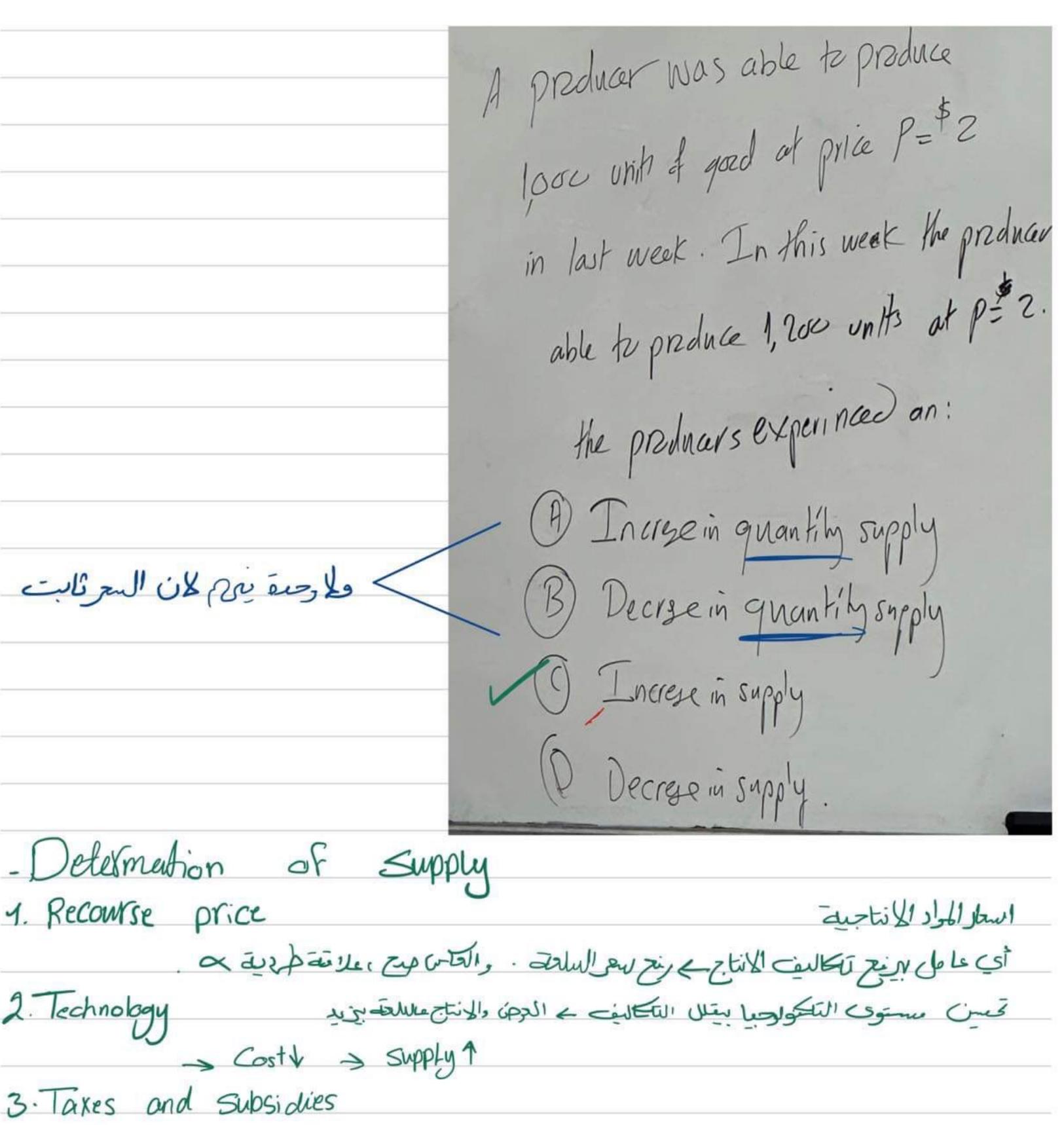
- CHANGE IN QUANTITY SUPPLY

_ CHANGE IN SUPPLY



Cjul zbjø's deerise SZS in Increase SZS al





16 of 53

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PAV -> SBT

4. Substitutes in production

Taxes 1 > Cost 1 > supply &

if goods A and B are substitutes in production

Subsiding > Cost V > Supply9

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(L3 1262)

السلع السله في الانتاج

Economic1





< 器 Q ① ₽































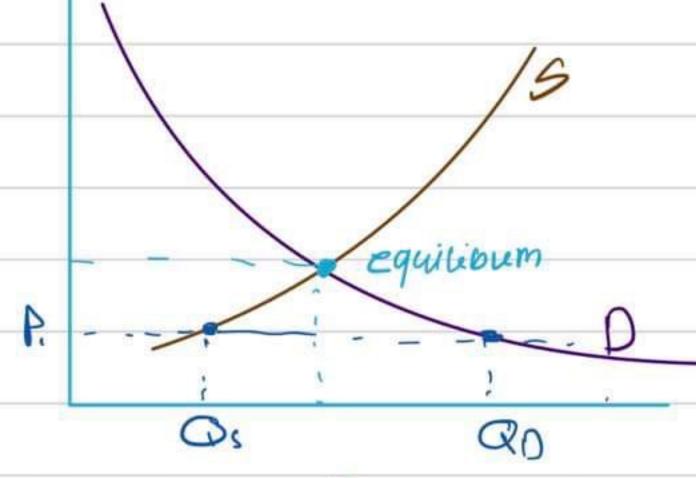
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5. Number of saller Jer Birty number of seuler 1 - supply increase

6. prouducer expected that the price of a good to Increase in near future - supply will decrise.

price: a price which Qo = Q, النقطية يك بيلنعي بها معن الرمين مع منعى الحرص



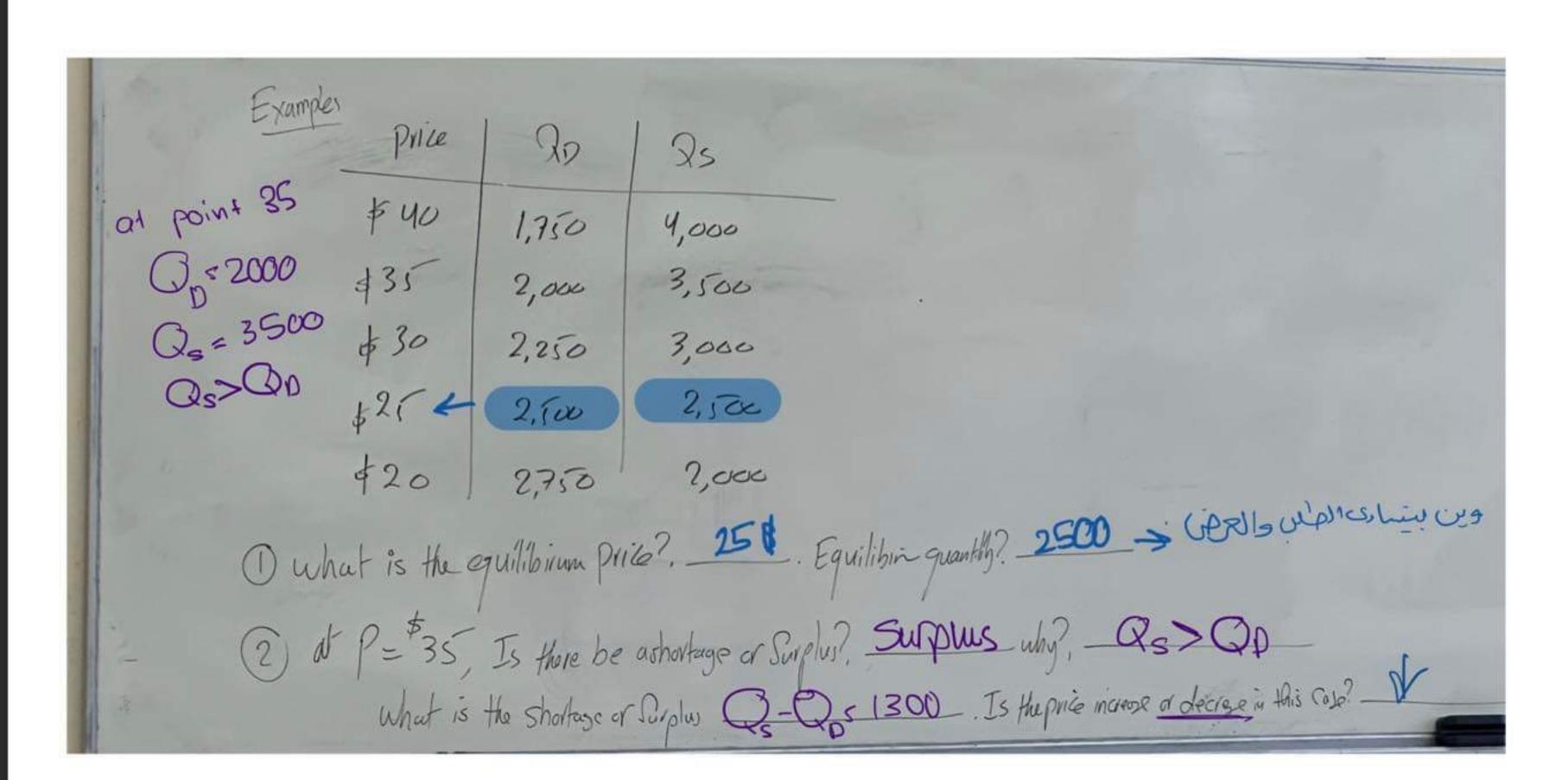
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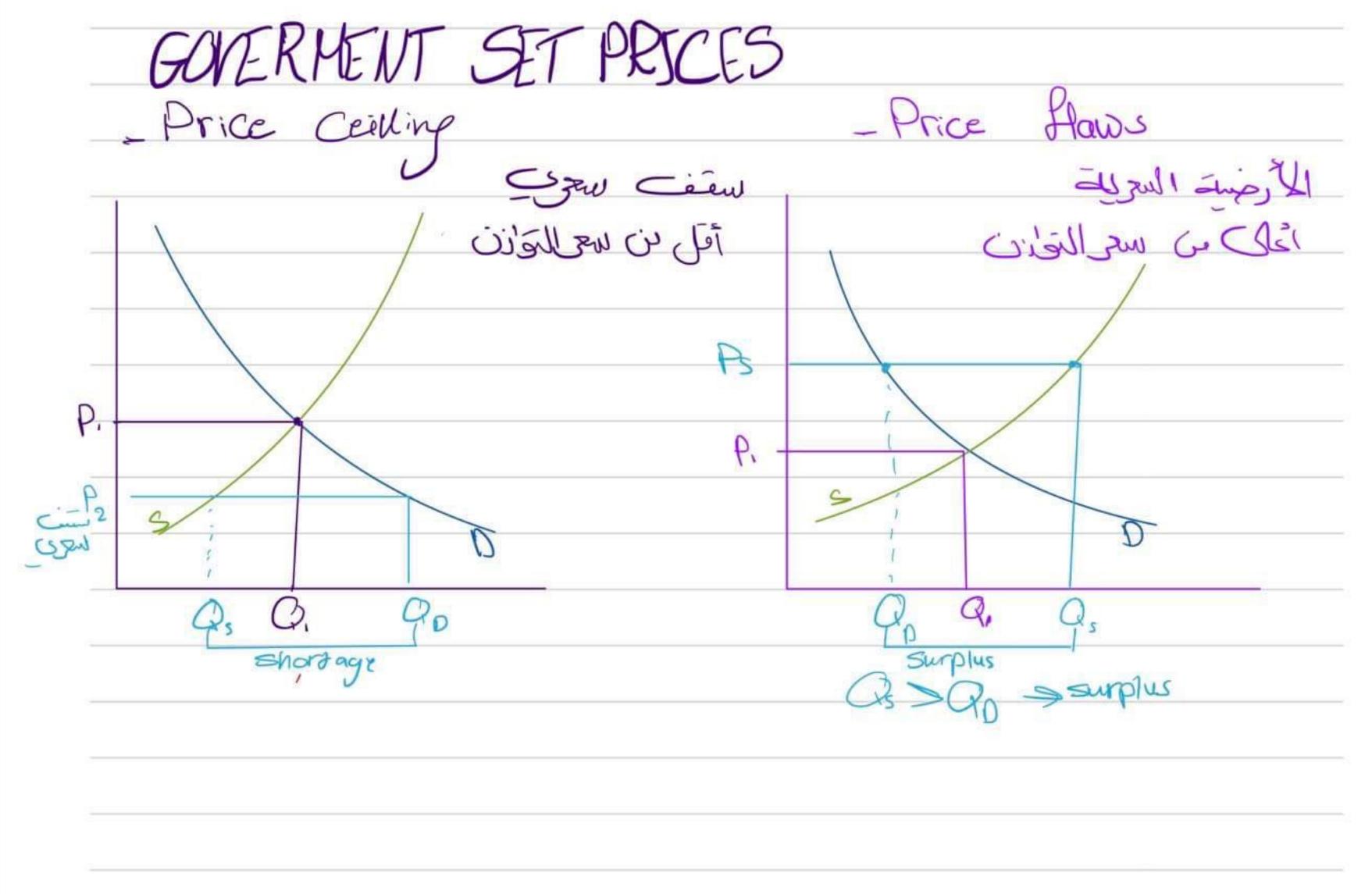
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≈ 5horloge = Qc - QD * Surphus = Qs - QD

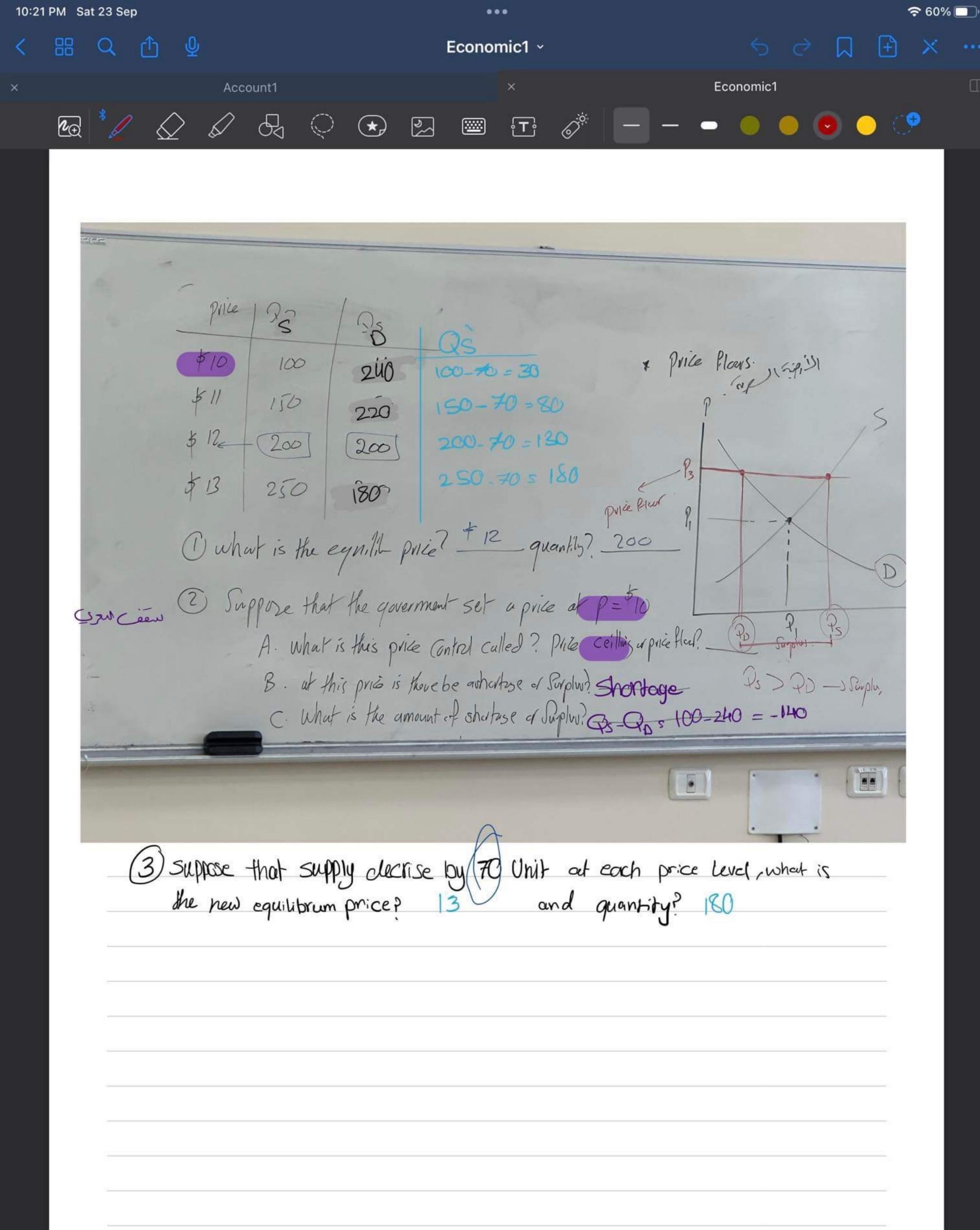
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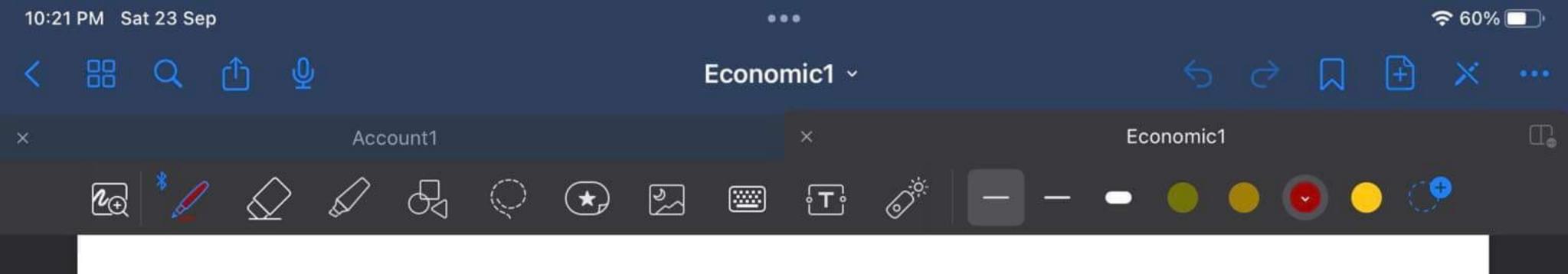
奈 60% □





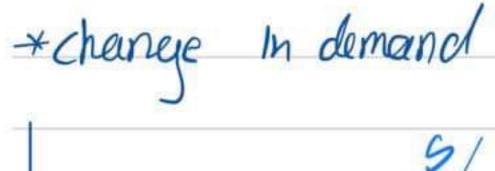
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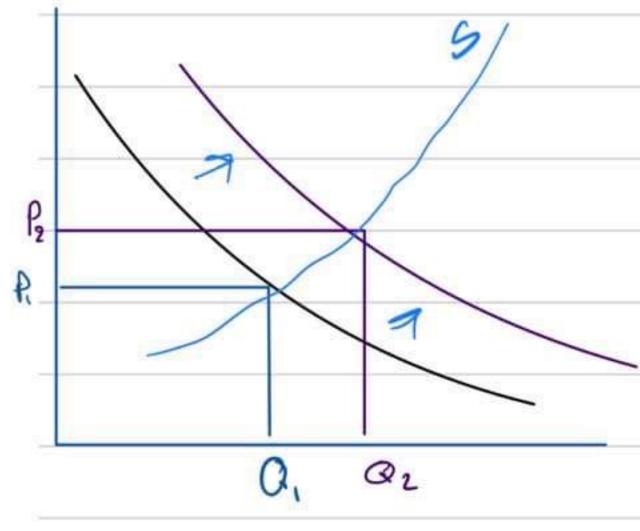




MON 14 ACG

CHANG IN DEMAND, SUPPLY AND EQUILIBIRUM





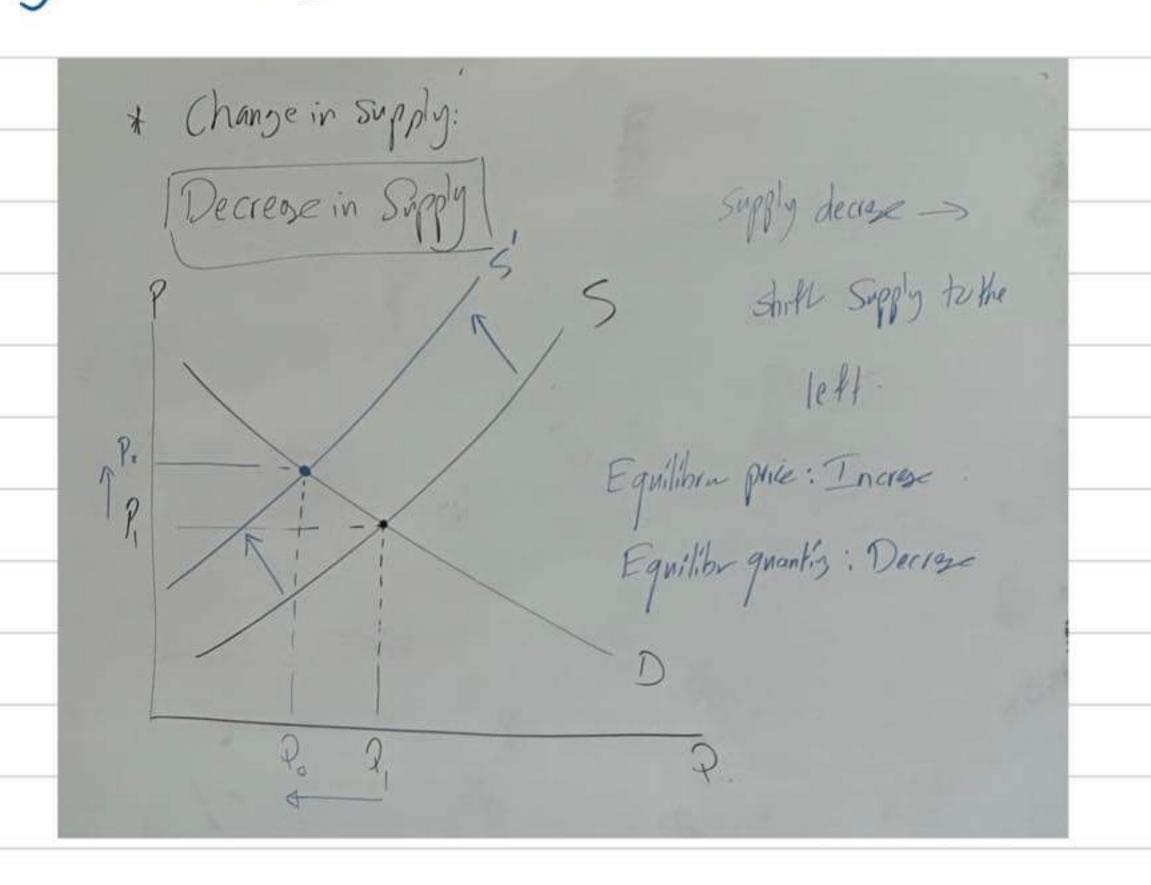
D1 -> shift clamand

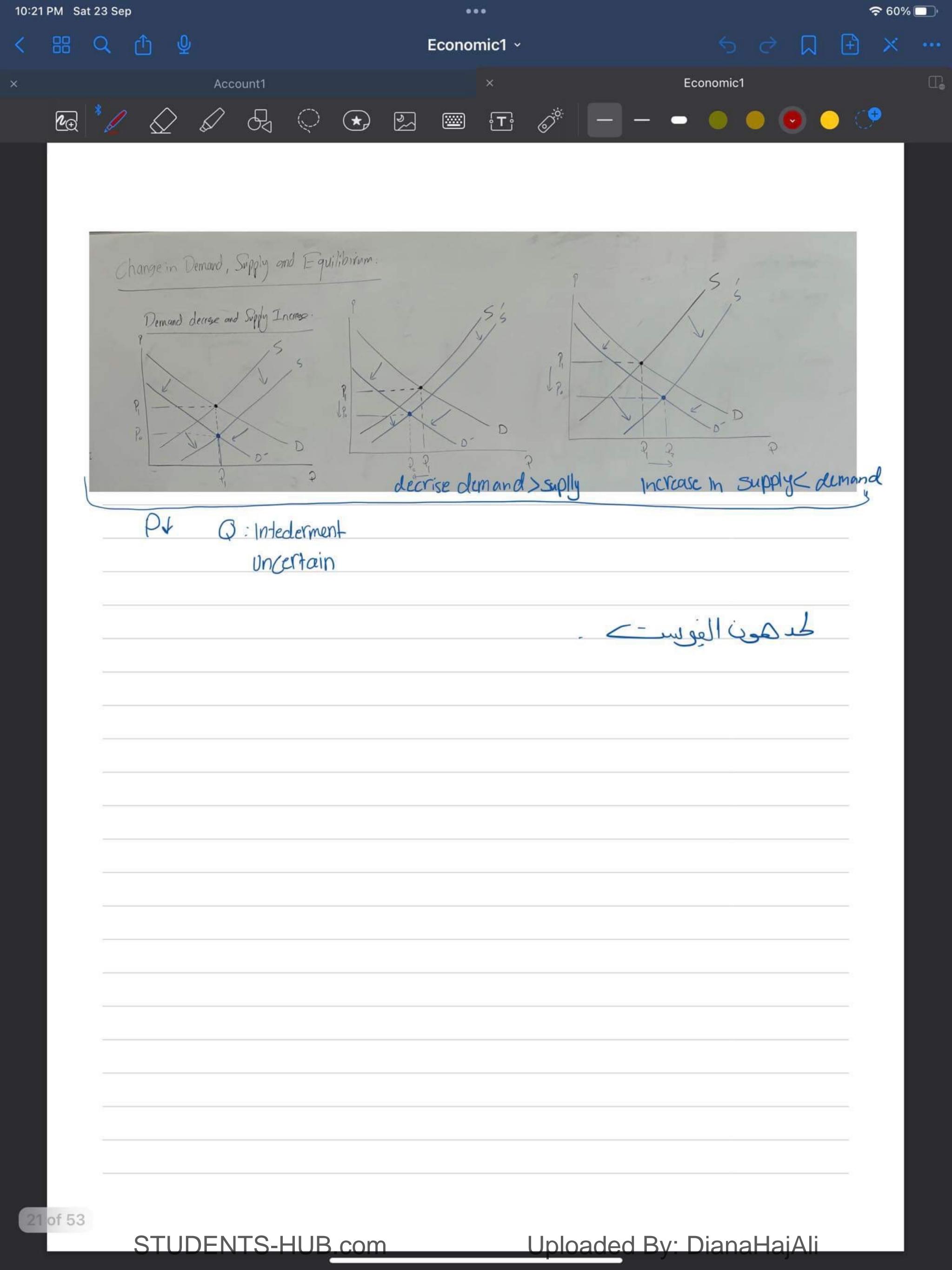
Curve to the right

Sequilibra price: Increse

Equilibra quantity: Increse

* Change in Supply





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Economic1 ~





Economic1





























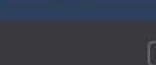








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CHAPIER6

MON 14 AUG

FLASTICITY

PRICE ELASTICITY OF DEMAND

percentage change in quantity demand with respect to 9%. change in demand.

عاداً راد سر العلمة لسبة 1! فإن سبة المعبة العلوم تتعنع لبنسة 2! آرداد

= 1. DOD

Cal Culade price elasticity of demond when price decress from 5 to 4. Ed= 2-9 12+9 = 20-10 x 4+5 -90 = -3

器 Q ① **少**

Economic1 ~











Account1



Economic1



































Example, Suppose that elasticity of demand	Ed= 1.DQ PAN
is -4, if quantily demand increase by	-4 = 1/20 1.00
20 percent then: (A) price Increse by 5 %	-4(1/AP) = 1/20 -4
(B) price increse by 80%	1/DP = 05 Y. decrise
(D) price decres by 80%.	

...

Account1

Economic1



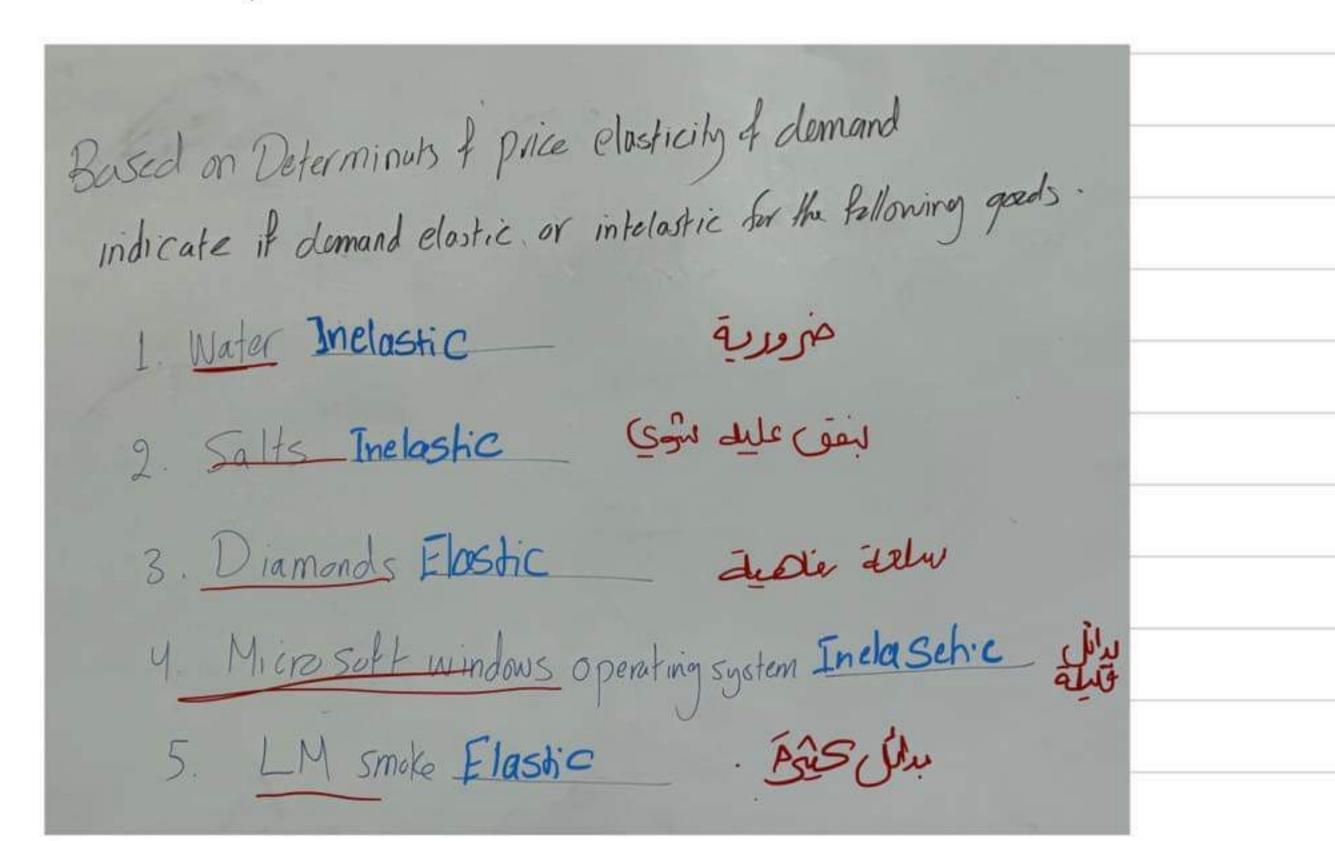




 $\Leftrightarrow \Diamond \square$



... Chapter 6

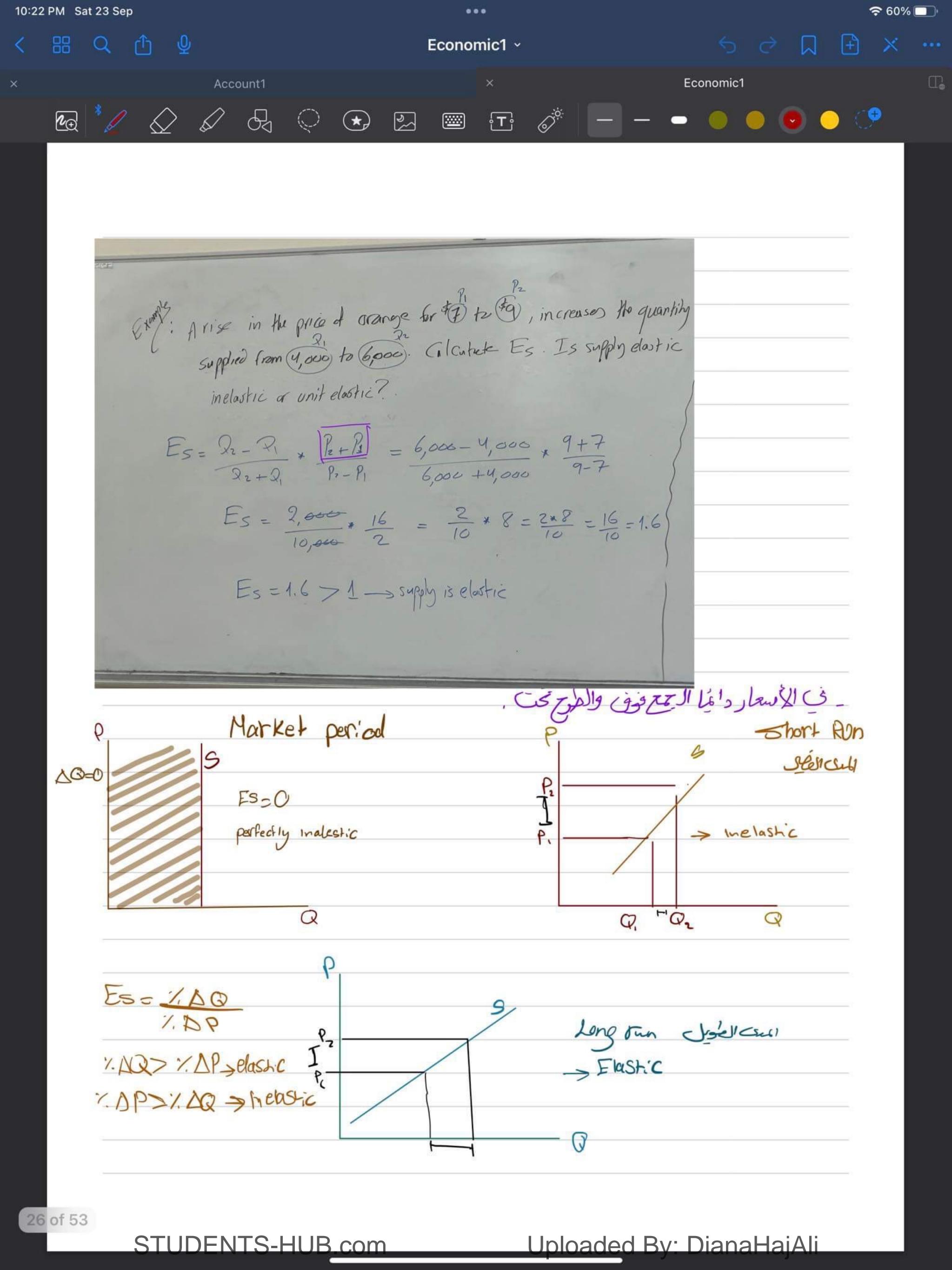


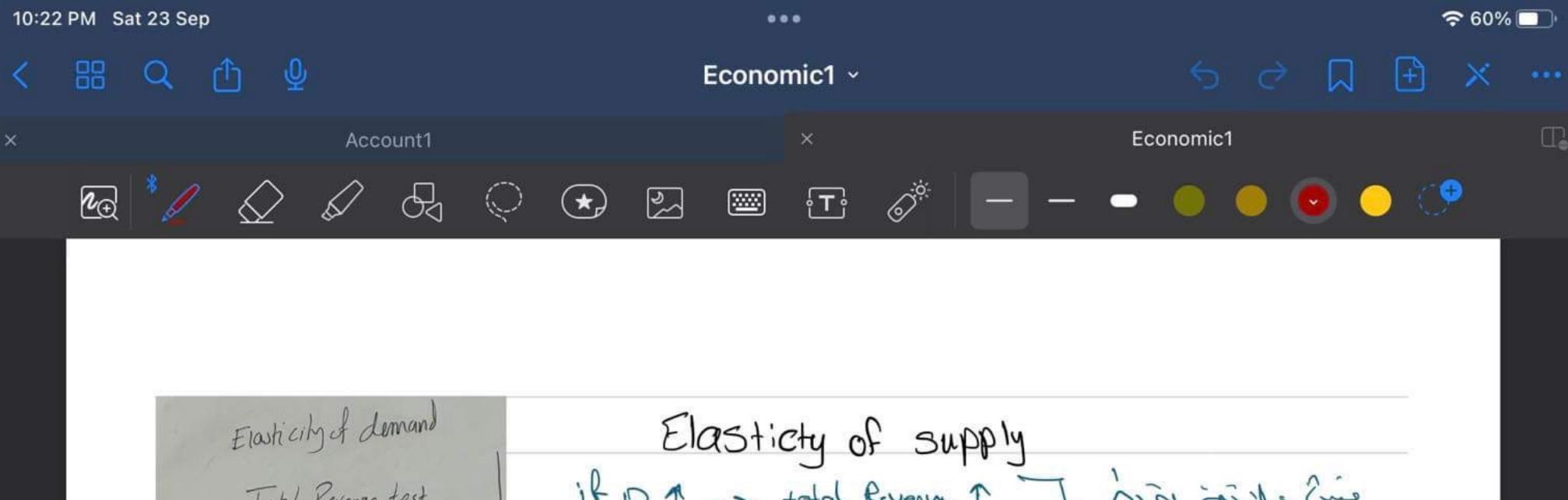
PRICE ELASTICY OF SUPPLY

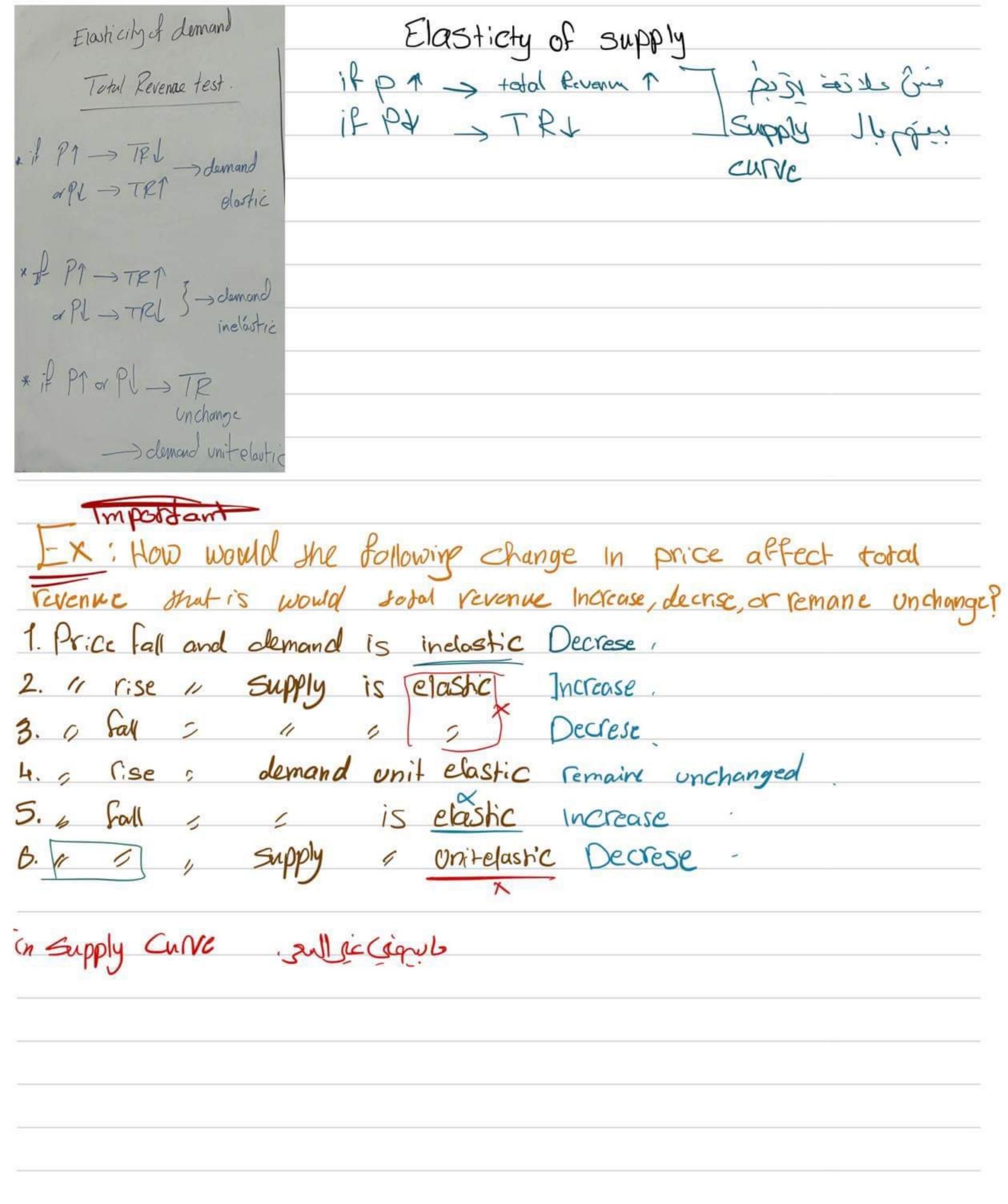
مونة العرض السوية (ES)

percentage Change in quantity supply with respect to 1.9 change in price.

- · Es>1 -> Supply clastie
- · Es<1 -> Supply Inclastic
- · Es=1 -> supply untielastic



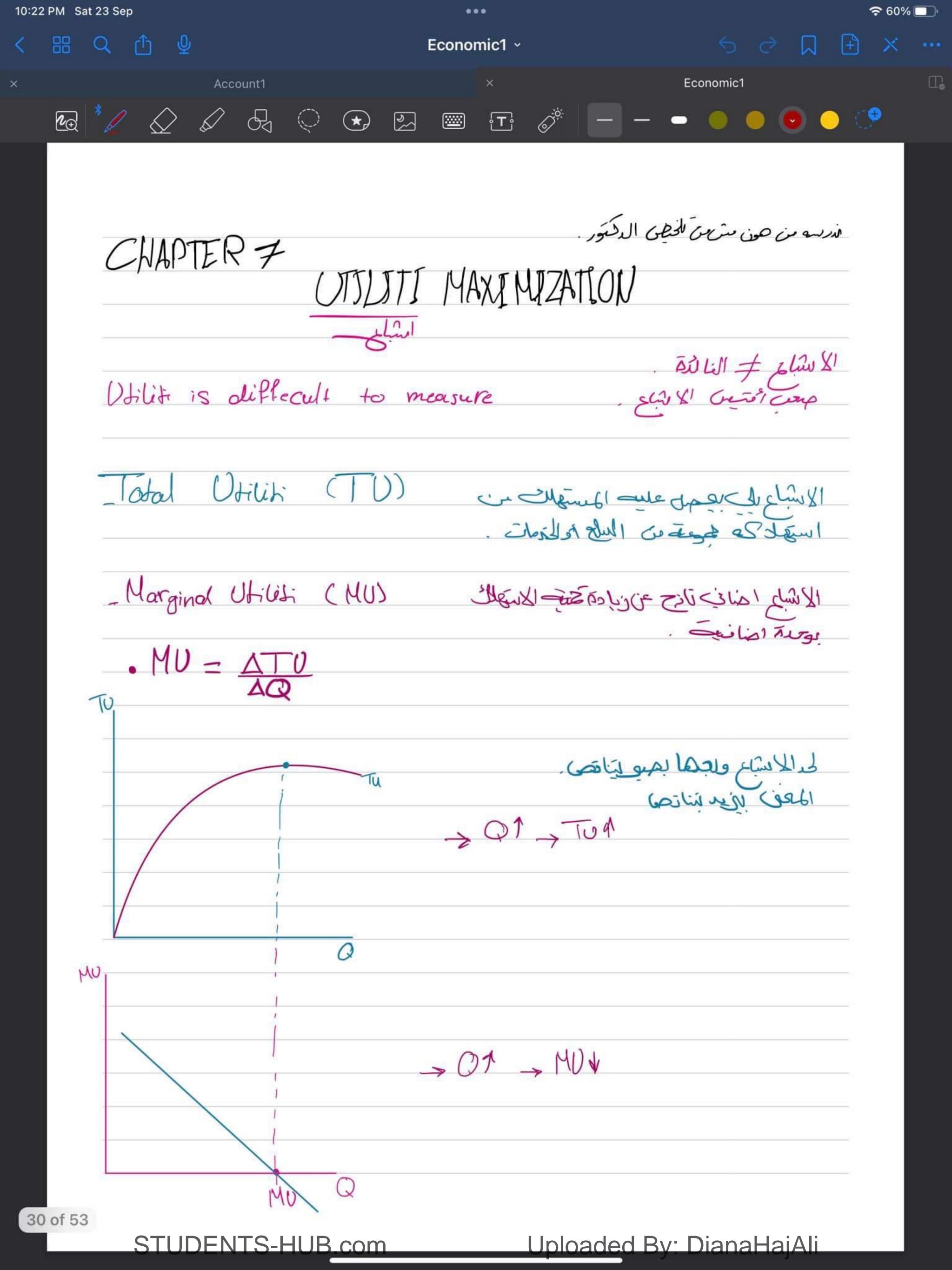




Income Elasticity of Demand (EI) with asylutural 2122 percentage change in quantity demand with respect to 12 change in income.

1 = 100 = 100 | Justicial | Justi

	Per Centage Change	1 Percentage change	1 Income
Product	in income	in quantity demanded	elasticity type.
A	9	12	(+) Normal (+) >
3	-6	6	(-) Inferior (=
	3	3	(+) Normal (+)>
D	-2	-1	(+) Normal (-)



...

























Economic1







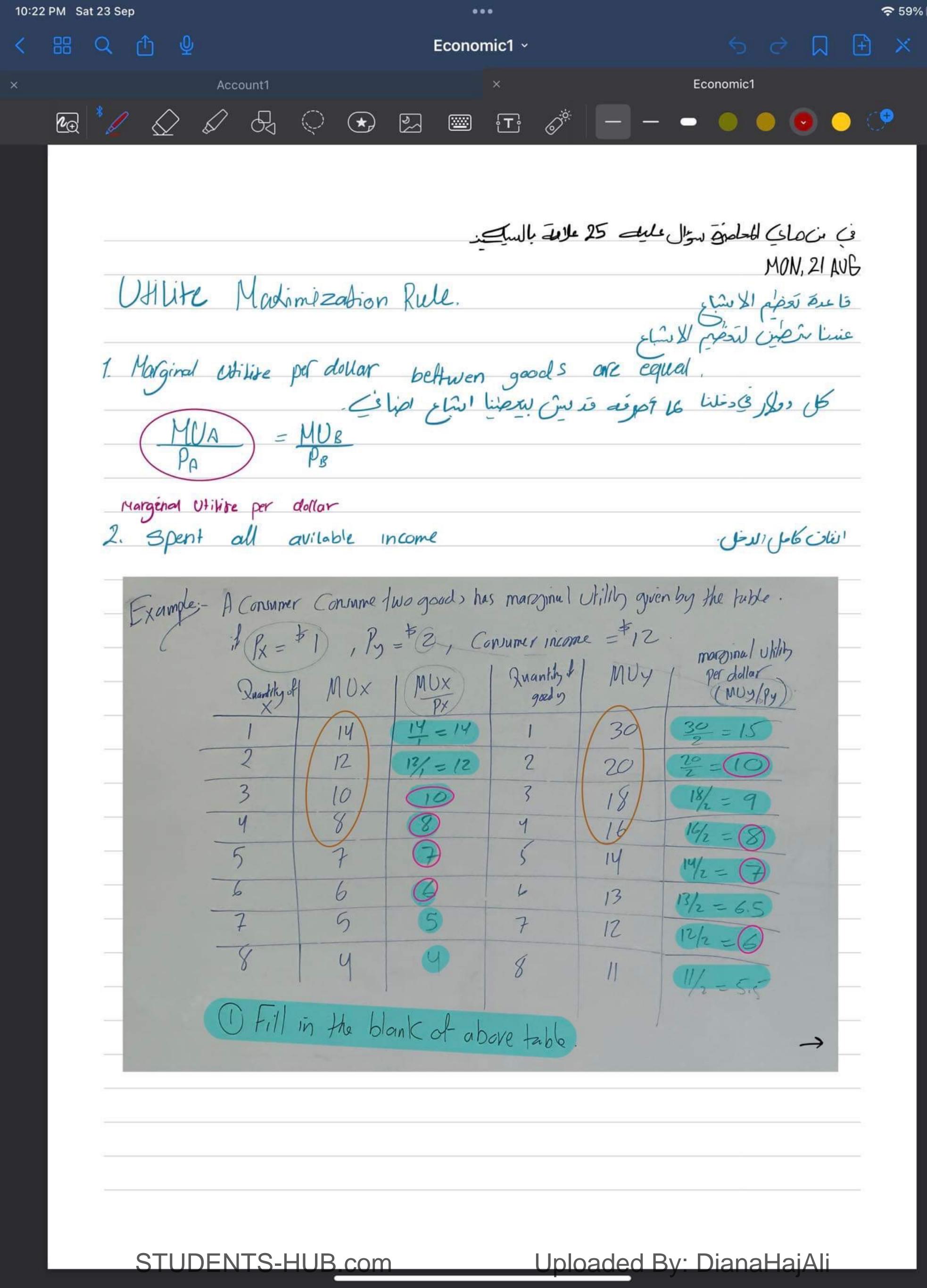
	-	lity Moximiza
Example:	units	TU
	1	5
	2	11
	3	18
	4	24
	5	30
	6	35
	7	32

1- what is the MU of the 4th unit?

$$MU = \Delta TU = 24 - 18 = 6$$
 $\Delta Q = 4 - 3$

3. At What consumption hevel of this product dose diminishing maraginal critity set in?

3th LATA Unit



88

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Account1



Economic1

































5 0 D







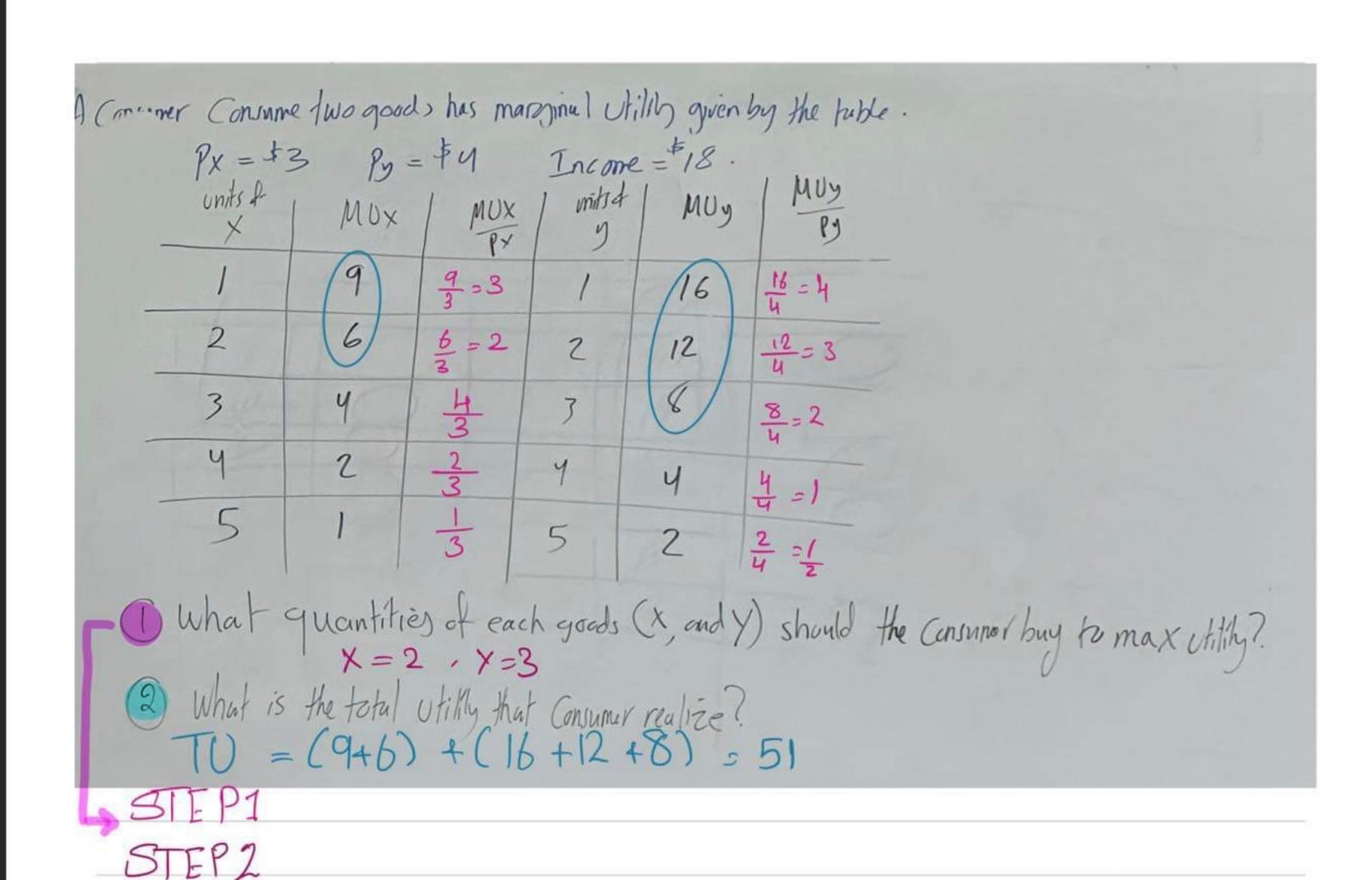
2	Find	all	Com	binations	that	Satist	y the	Utility	maximizuho	m
									binahor.	

Combination	lu u perdollar	quan hites	cost = PxX + Pgy -> X +2y Chimalogo
A	IB	X=3 Y=2	cost = 3 + 2(2) = 7
В	8	X = 4 Y= 4	Cost = 4 + 2(4) = (12) فيما ليتاري المخل (12)
C	7	X = 5 Y= 5	Cost = 5+2(10) = 15
D	₽	X=6 Y=7	cost = 6 + 241 = 20

(3) what quantites of goods X and Y should the Consumer buy to max Obility?

h dispersion lie in your X = 4

(4) what total Obilite Will the Consumer Pelize? 10= (14+12+10+8) + (30+20+18+16)



Combination Mupor | quantities | Cost = Pext + Pry |

A 3 x=1 y=2 3(1) + y(2) = 3 + 8 = 11

B 2 (x=2 y=3) 3(2) + y(3) = 6 + 12 = 18

3) IF consumer income decree to 11, what quantities of x and y should the Consumer hung to max utility? Is god x Normal or interest in this cox?

X = 1 y = 2

when Income decrise from 18 to 11 demand for good decrise from 2 to 1

X is Normal



Economic1





















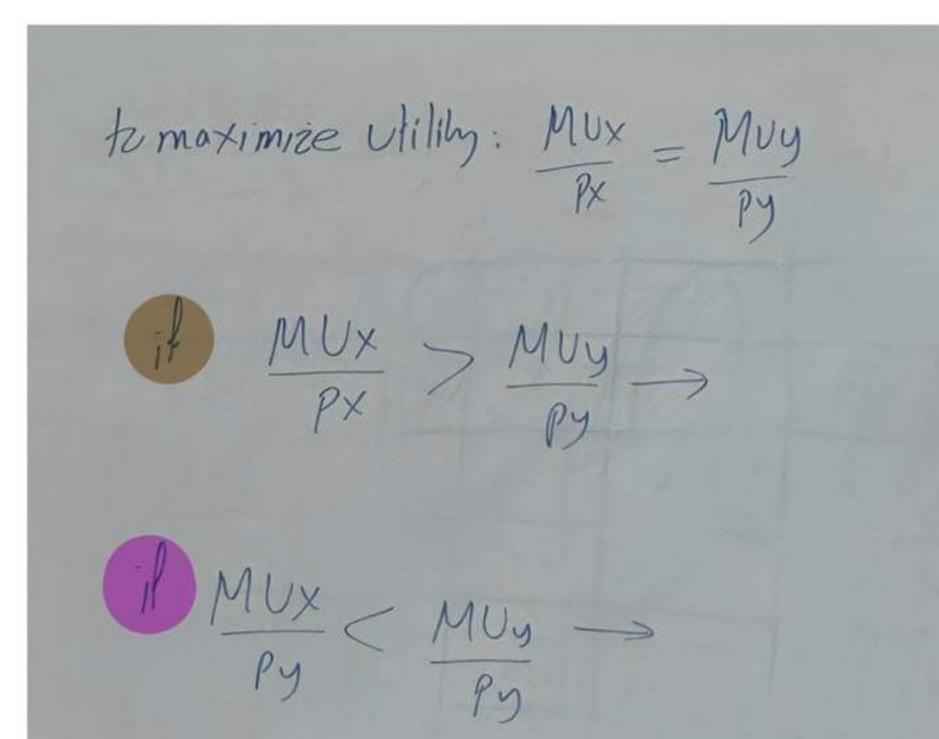












to max Utility the Consumer should consume more of x and less OF Y.

to Max Utility the Consumer should consume more Y and Jess of X.

suppose that MUX = 15 MUy = 10 to incree total utility the consumer should. A. Incree X and decry B. decr X and incre you C. Incre both X and Y.	$Px = \frac{1}{2}$ $Px =$
--	--



Economic1 ~

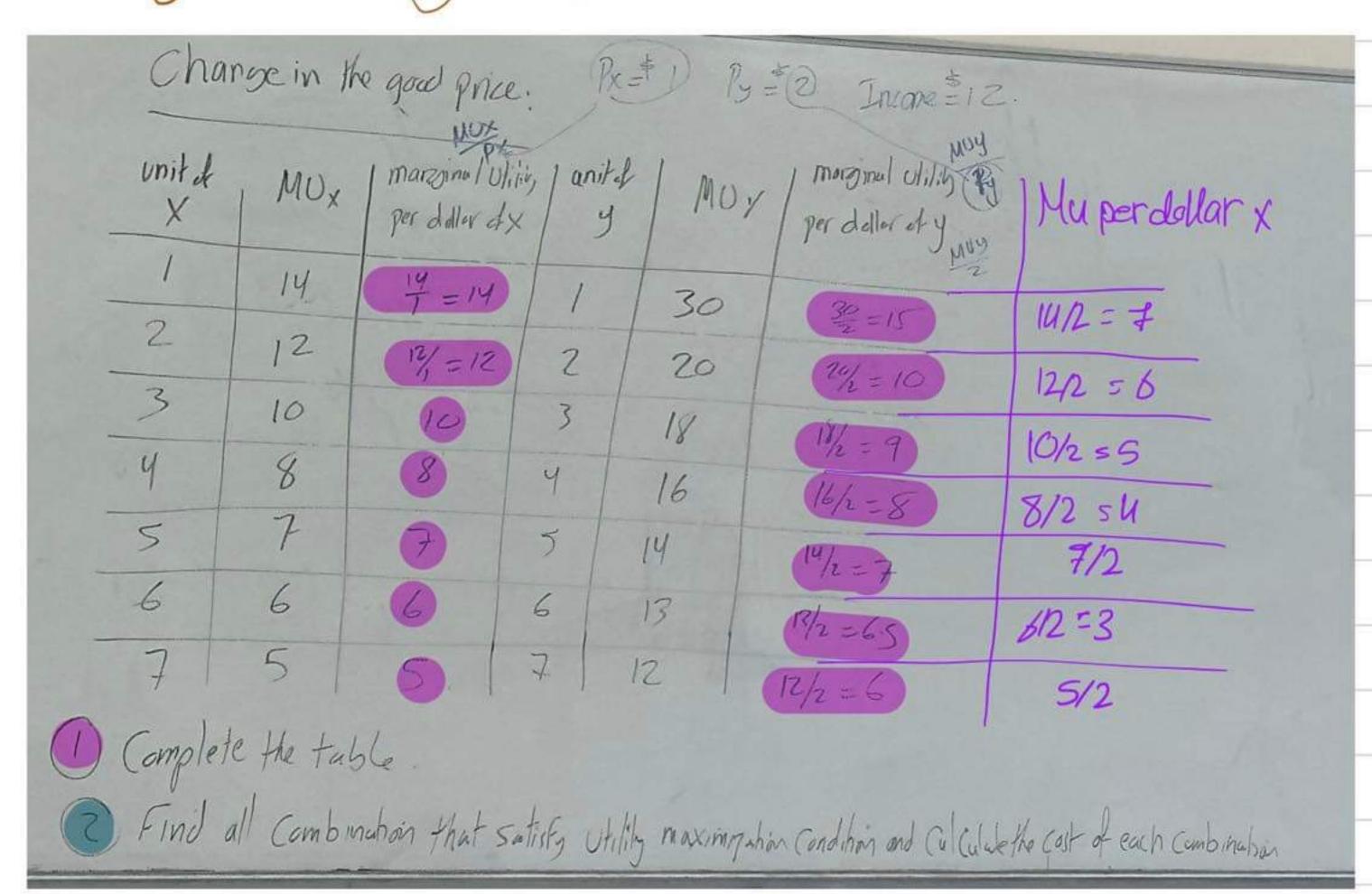


Economic1

Account1 ×



- change in the good price:



Combination	Muper \$\$	quantites	Costs = Pxx +Pyy
A	10	x-3 $y-2$	3+2(2) = 4
B	8	X = 4 y s 4	4+2(4) = 12 V
C	7	x = 5 y = 5	5+2(5) = 15
D	6	x = b x , 7	6+2(+),20

Economic1

































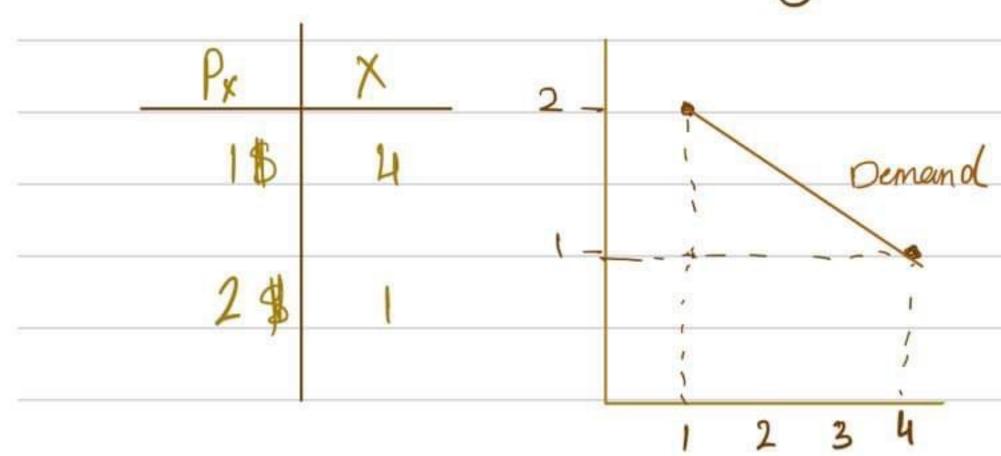


O what quantites	of	X	and y	Shauld	the	Consumer	buy	to	mex	Utility?
X = 4		0				Y = 4				

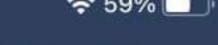
Suppose that price of good X increase to 2\$, find all Combination that Satisfay Uticity maximization and Identify the quantity that maximize Orilite?

Combination	Moperdollar	quantity		Cost Px X +Py y
A	7	X=1	Y=5	2(1) + 2(5) = 12
B	6	X=2	Y = 7	2(2) + 2(7) - 18

E Derive demand ourve for good X



لهاية الجريم المطهي بشابير . لهدن السياكند



Economic1

















Economic1 ~



















WED23AUG

Business and the Cost of Production

Economic and accounting

- Explicit Cost

Examples:

تَعَلَيْتِ مَعْلَيْتِ وَاعِنَا النَّالِيَةِ وَاعِنَا النَّالِينَ مِعْلَيْقٍ وَمُلْتِهِ أي تكلف أنا فعلاً لدنها.

- payment of wage of works

-payment for work material.

- Transportation

-Taxes ailyou cittis

Sing Carti - Implicit Cost تكالف ما يتندنع، بيتونى فنع ، ، مثلًا أما فعن شعل خلى ، منتب بالرات الى كان عان المن cité Cimil el

- Accounting Cost = Explicit Cost - Economic Cost = Explicit Cost + Implicit Cost

- Accounting profit = Total revenue - Explict cost

_ ECOnomic profit = Total revenue _ (Explict + Implicit Cost)_

TR >TC -> prolit

TC >TR > bosses

TC = TR -> Profit = 0

Normal profit = Implicit + Cost



Economic1





く 器 Q ① 型



































Example - Sirms has total Sales Revenue of \$1,000,000 and total explicit Cost \$600,000 and implicit Cost 300,000. 1) what is the firm normal prolit? Normal profit = Implict cost = 300 000 \$ 2) What will be the a counting prolit? Accounting profit = todal revenue - Explicit Cost 1000 000 - 600 000 = 400 000 \$ 3) what will be the economic pralit? Economic profit = total revenue - (Explicit cost + Implict cost) = 1000 000 - (600 000 + 300 000) = 100 000 \$

	0		
CILADI	2171		1 11/1 2/11
THYIKI	NUN	AND	LONG RIN
			1

Some recource are fixed and all recource are variable.

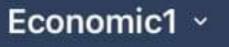
others are vorriable

The run production relationship:

- Todal product CTP)
- Avorage product (AP)
- Harginal product GMP)

النادج الحيك























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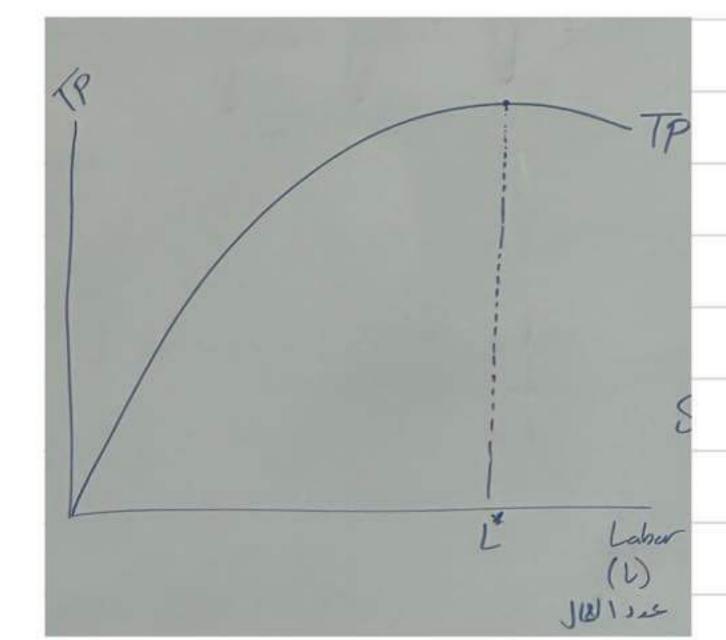


Economic1

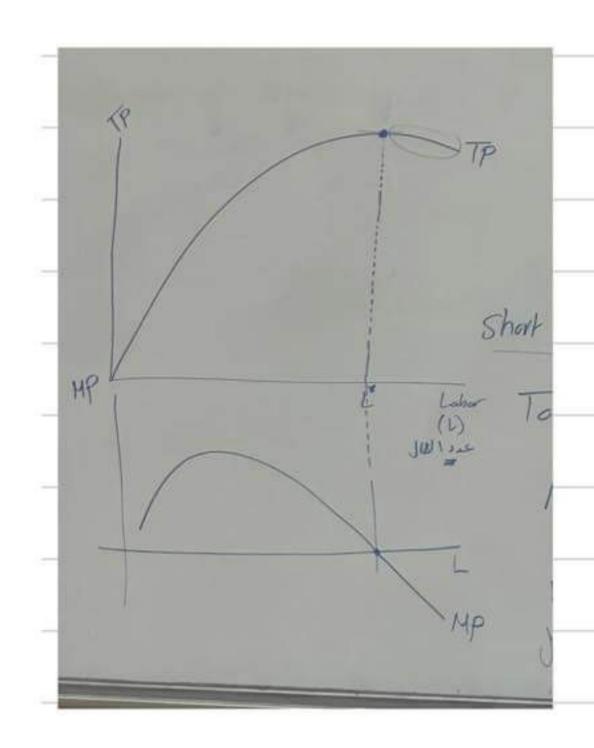












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Economic1





器 Q ① **₽**

































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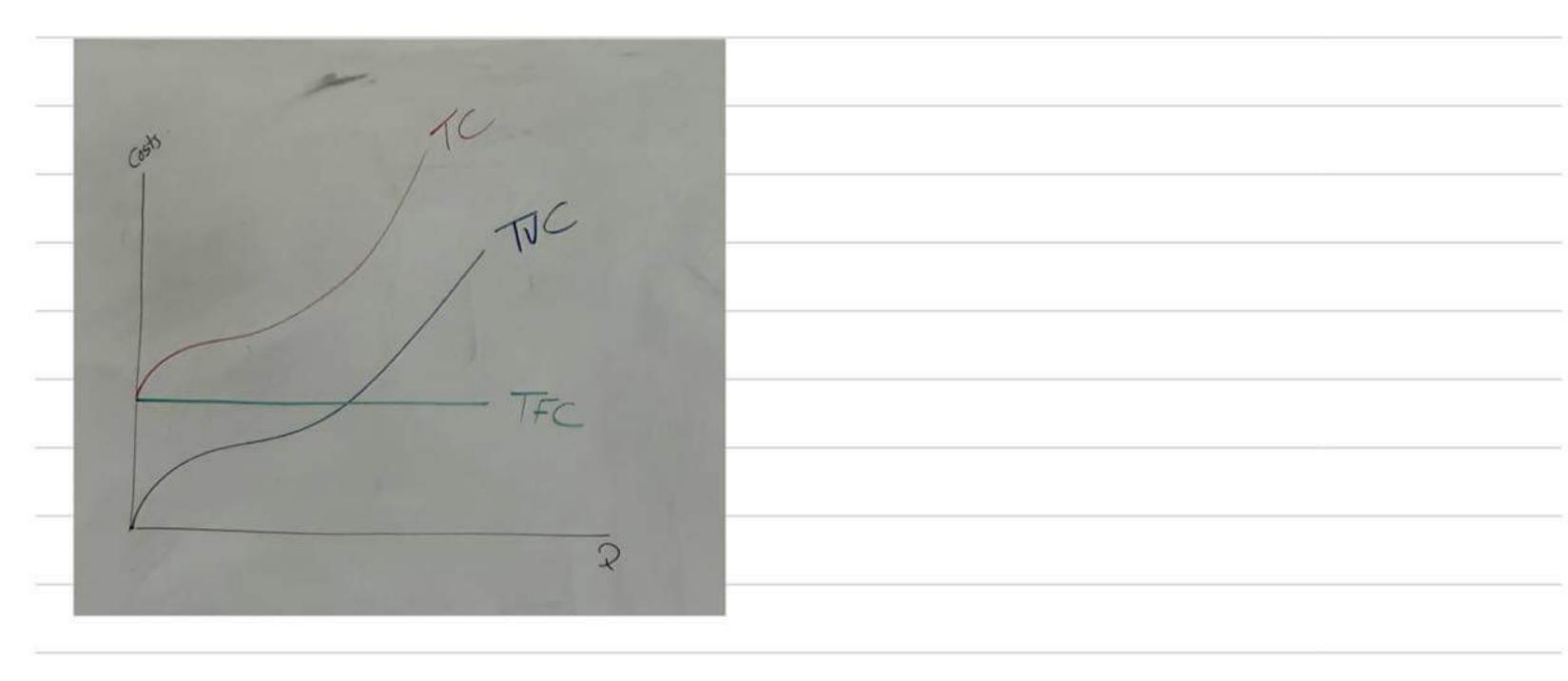




Examples unit of labor(1)	1 TP
1	40
2	100
3	165
4	200
5	225
6	240
7	235
	ase product of 4 worlder?

1.	AD=TP	= 200	50
	1	H	





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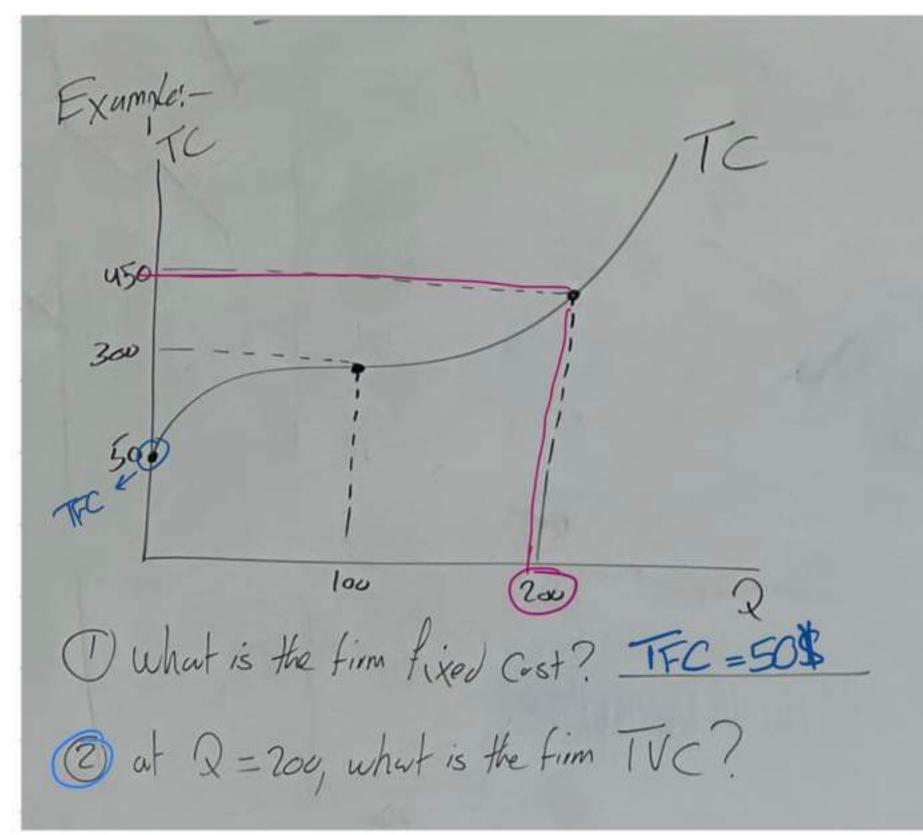
Account1

Economic1

 $5 \rightarrow \square$







PER UNIT AVARAGE COST:

- · Avarage Rixed Cost CAFC) = IFC
- متوسط التا الكانة
- · Avarage Variable Cost (AVC) = TVC
- · Avarage total Cost CATC) = IC

Marginal Cost (MC): additional Cost from producing one more unit of output.

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Economic1 ~

Account1

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Economic1































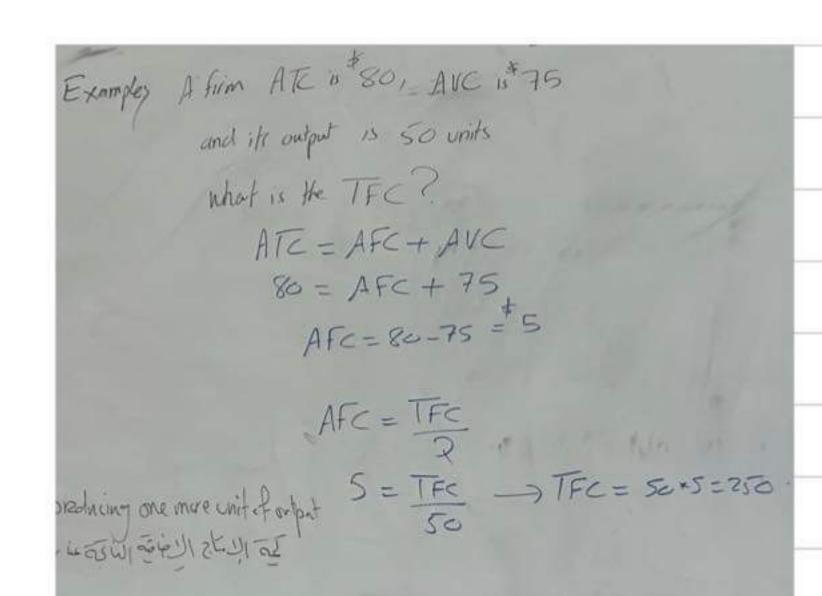






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2 140 3 180 4 220	Example:	Q 	1TC 60	عد العمة 0 (-: العط = كالتها
1. What is the firms total Fixed Cost (TFC)?60	1 1 1 1	4	220	- 12 60

AFC = TFC = 60 = 30\$ 3. what is the variable cost of producing 3 Units?

AVC = TVC

TC = TFC = TVC

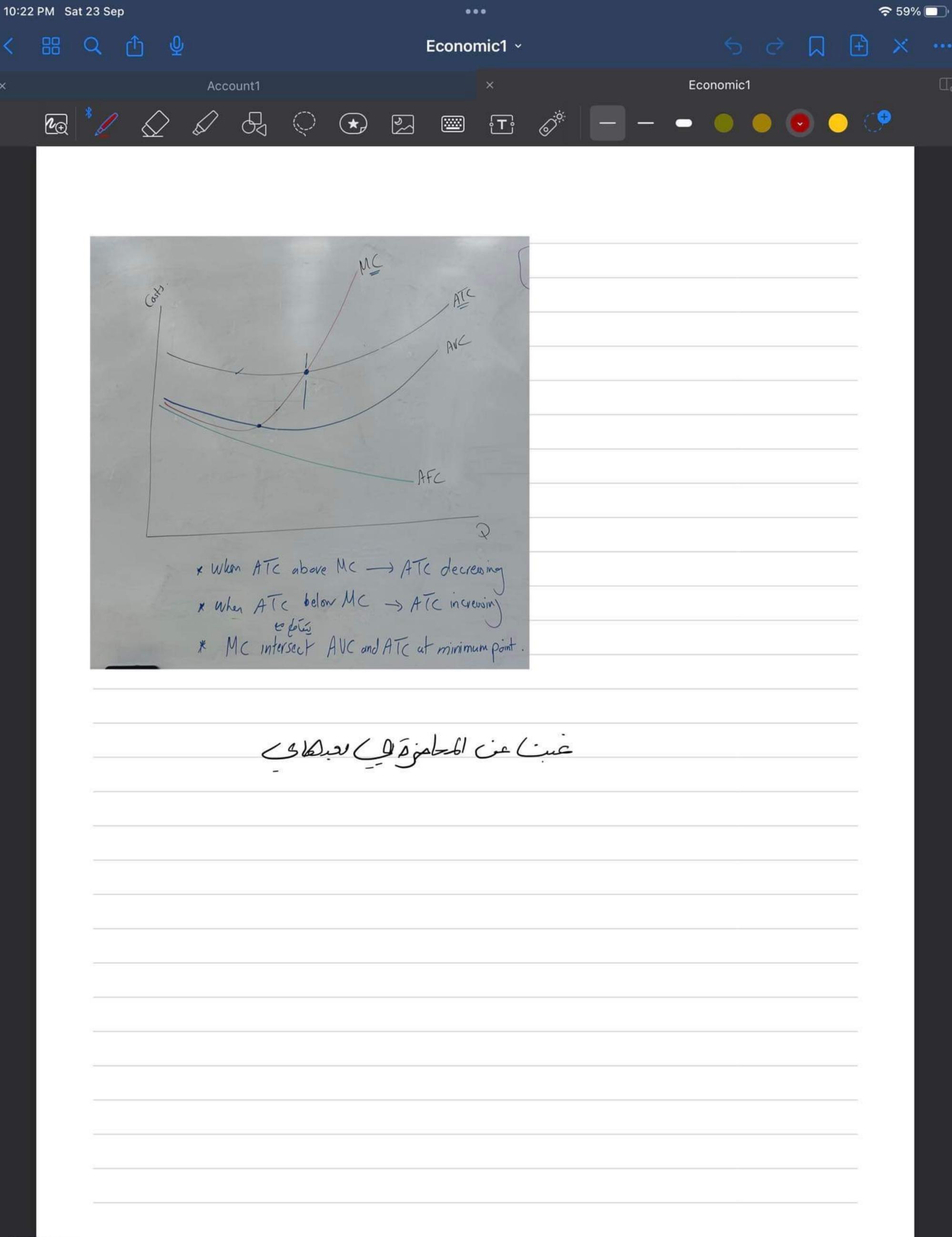
TC-TFC = TVC

180-60 = 120

AVC = 120 = 40\$4. what is the average total Cost of 4 Onit?

ATC = TC = 220 = 55 \$

5. what is the MC of producing 3rd unit?



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Account1

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CHAPTER 11

PURE COMPITITION IN THE SHOPT RWS

WED. 30AG

خيادُمي سوف المناسنة.

2 - Standrized prand

Tilles dela

3- Price John 4- Free entry and exit

wer like who lites as is white vision لا يوس ف آمال الككم في السعر. . حرية الدخول والخرى من الصناعة.

Perfectly clastic

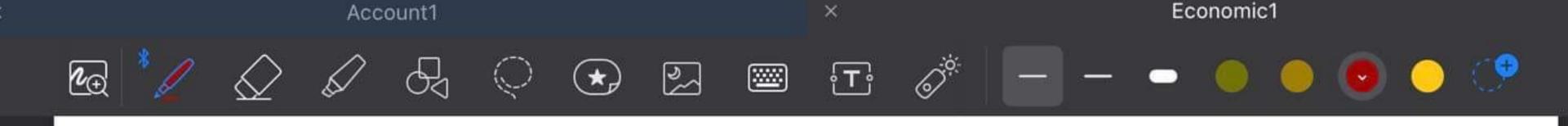
Total Revenue (TR), Avarage Revenue (AR) and Marginal Revenue (MR)

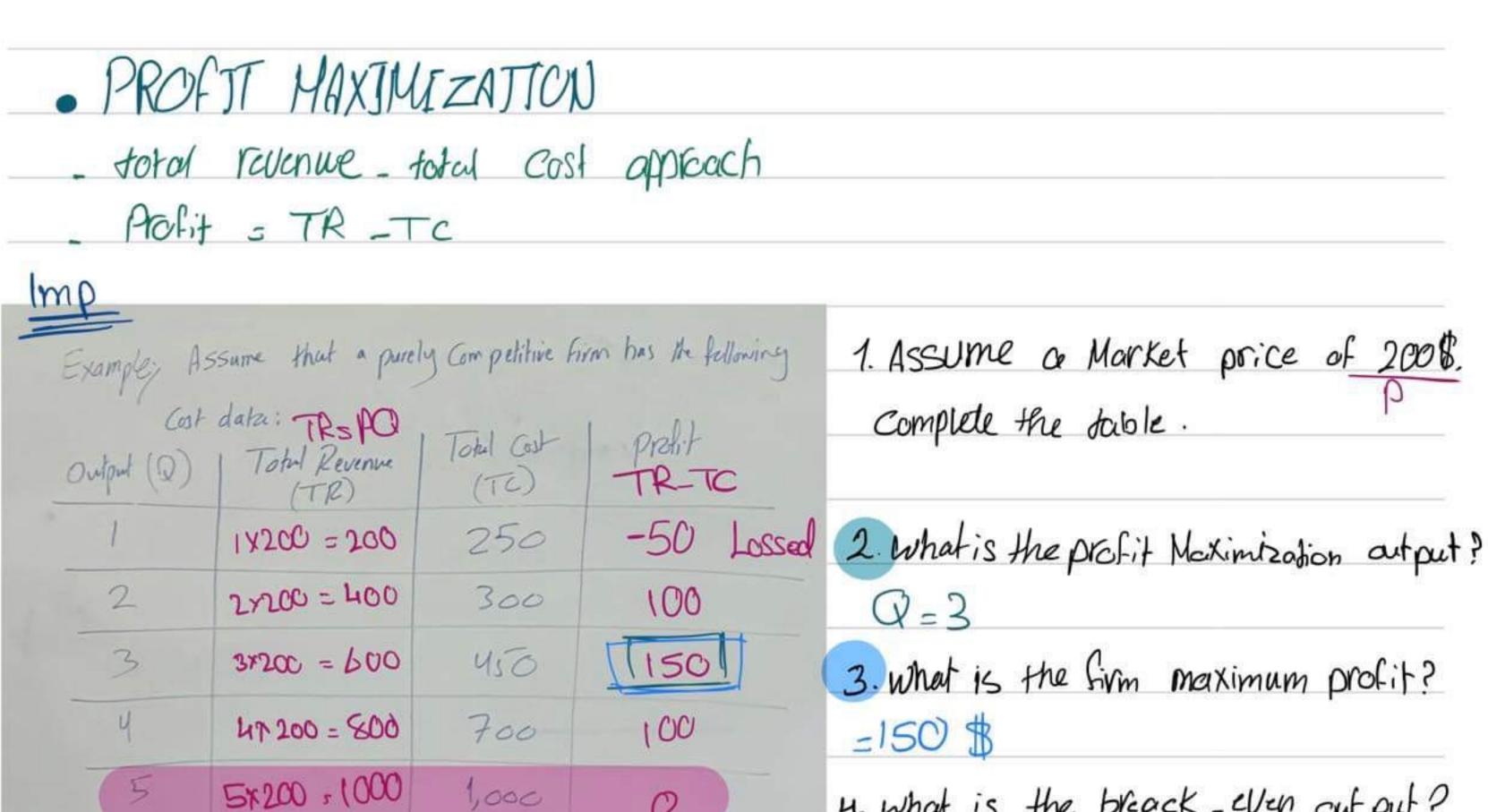
MR = ATR = APXQ

MR: additional revenue from Producing and selling one more unix of cutput.

الايرز المطافى الناتيجين انتلى ويتع وجهدة اطاقعي.

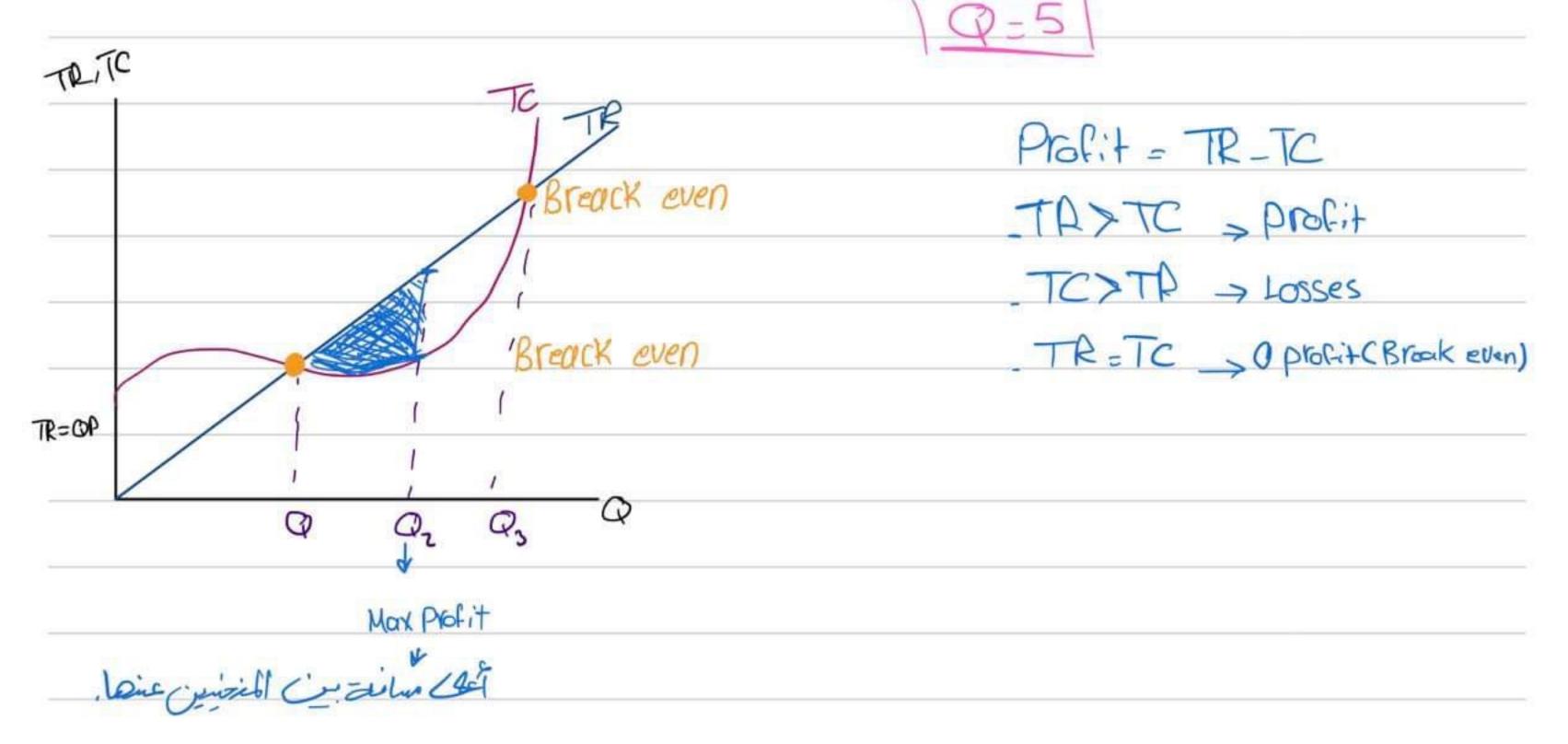






u. what is the breack - even out put?

AT Breack even TR-TC Or profit = 0



- 200

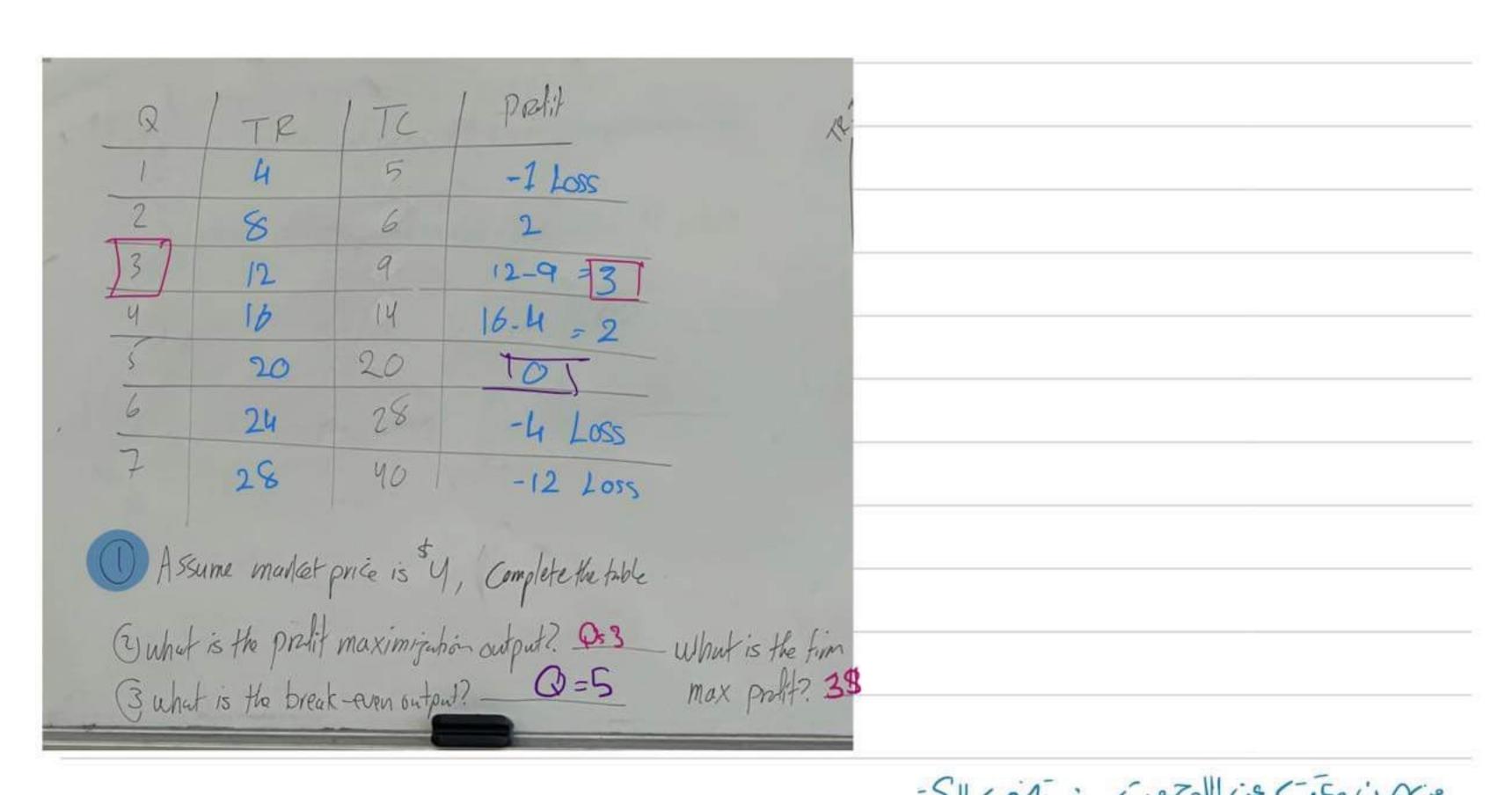
1,400

1200



Economic1 ✓ 与 ☑ ⊞ × •

Account1 × Economic1



PROFIT MAXIMIZATION: Marginal revenue - Marginal cost Approach

To Max Profit: MR=MC

If MR>MC > Increase production to increas profit.

MC>MR > decrease production to increas profit.

الناج وحدة اضانية تمكن أكثر بن الكيرد من الناجل -

In perfect composition AR=MR=P
to Hax profit: MR=MC=P

Profit = TR -TC)

Profit = TR -TC)

= Q(P-TE)

Profit = Q(P-PTC)

A P > ATC -> Profit

P>ATC > loss Fhir

* if PXATC but P>AVC > Loss and still produce.

* if PXATC and PCAVC > Should shut aboun

and Loss TFC

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Account1

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Economic1

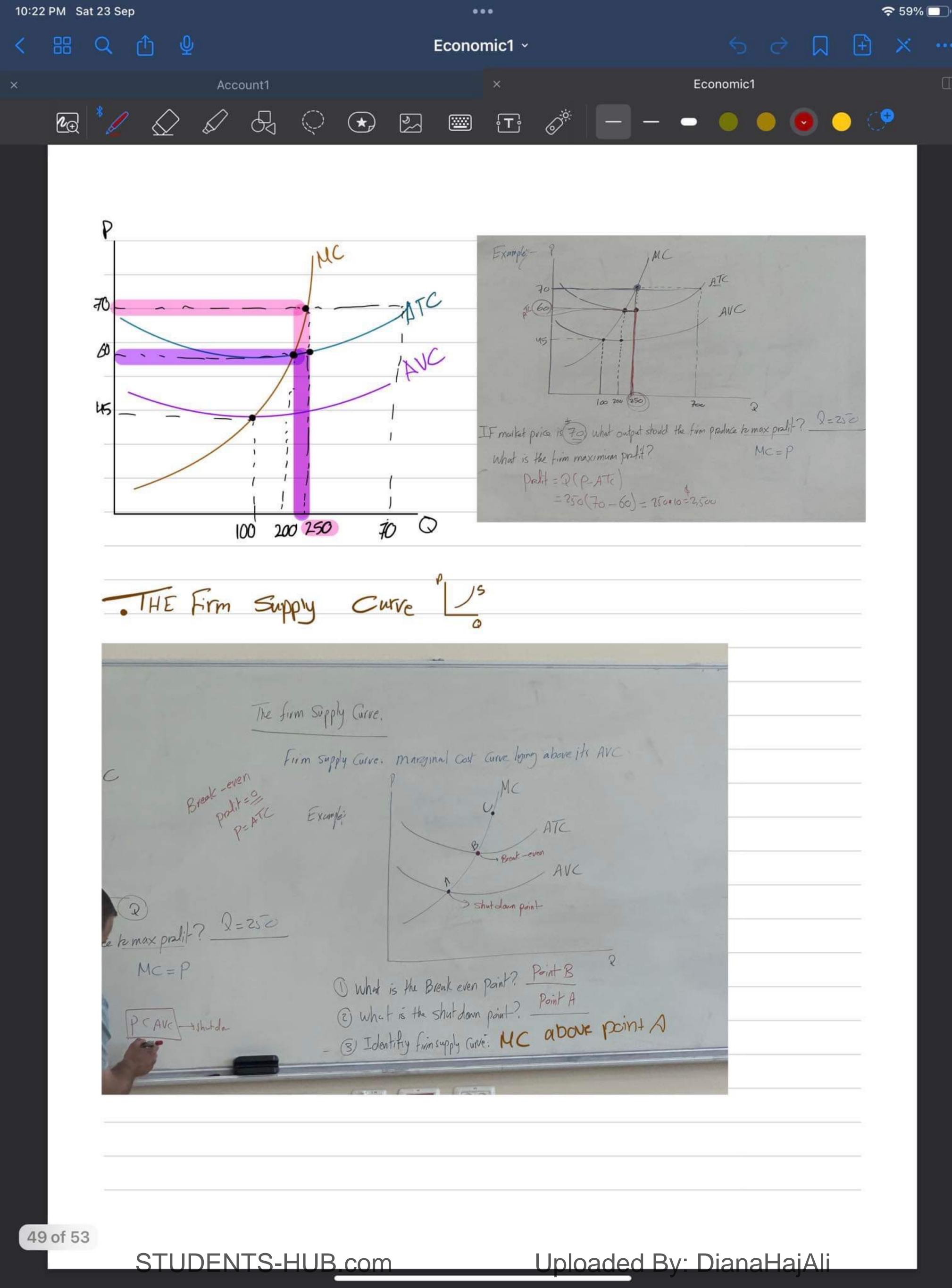


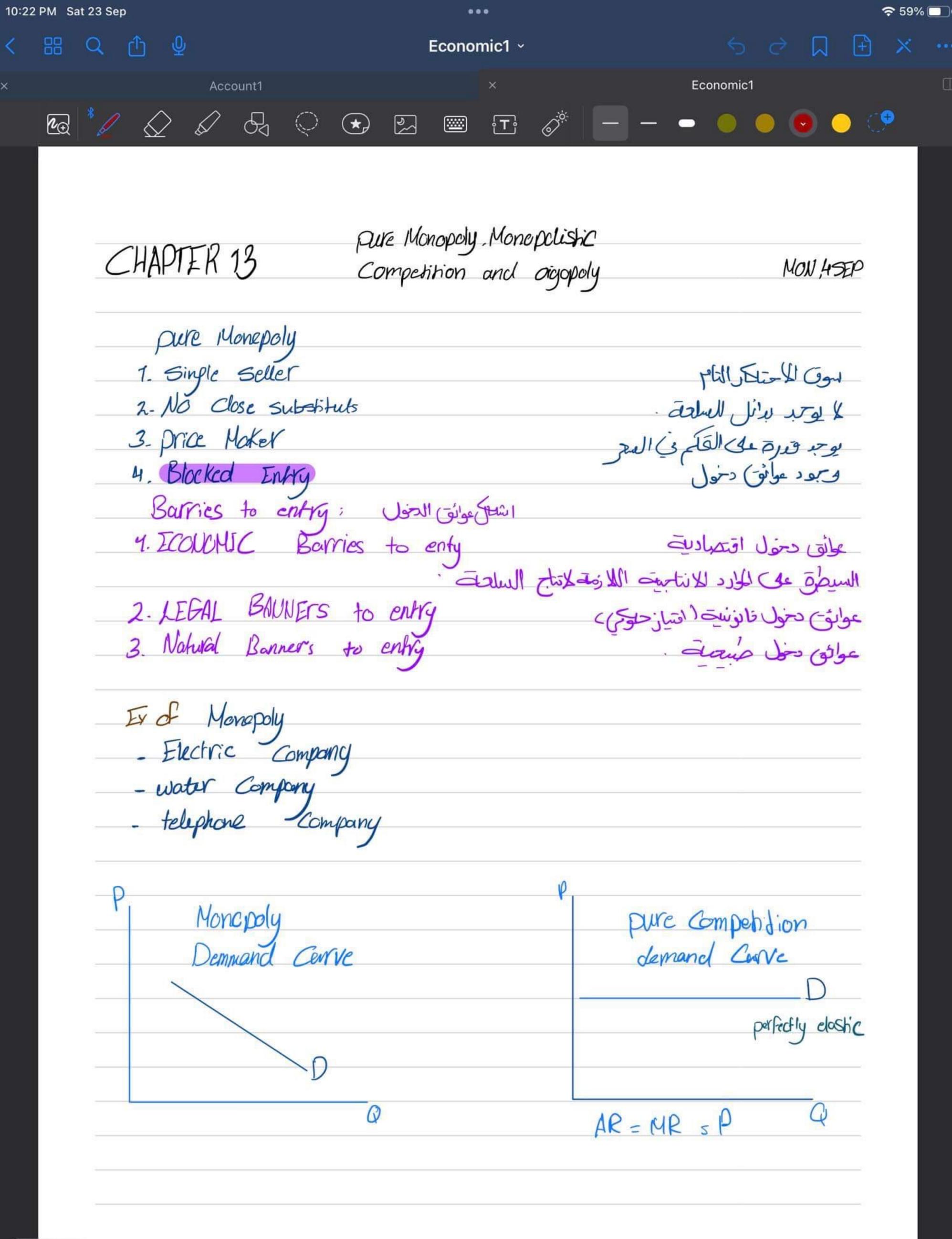


xample;	Output (R)	AFC	/ AVC			mal Cost A)	-		
/	1	300	100	100	100				
	2	150	75	225	50				
	3	100	70	170	60				
	ч	75	72.5	147.5	80				
	5	60	80	140	110				
	6	50	90	140	140				
	7	43	1025	145.5	180 p	MC Naximigation of pur Drofit = (

- 2. If Market price decrise to 110 should the firm still produce? it so, now much? and what will be the resulting profit or Loss? To Max profit > MC sp ATC = 140 P = 110 AVC = 80 > P>AVC > Still produce profit = Q (p. ATC) = 5 (110-140)
- 3- if Market price decrise to 60 should the himstill produce? if So, howmuch? and what we be the resulting profit or Loss? ATC = 170 -> PS60 >P<AVC > the firm should AVC 570 Shut down.

LOSS = TFC & Q X AFC = 3(100) = 300















? 59% □

Economic1





























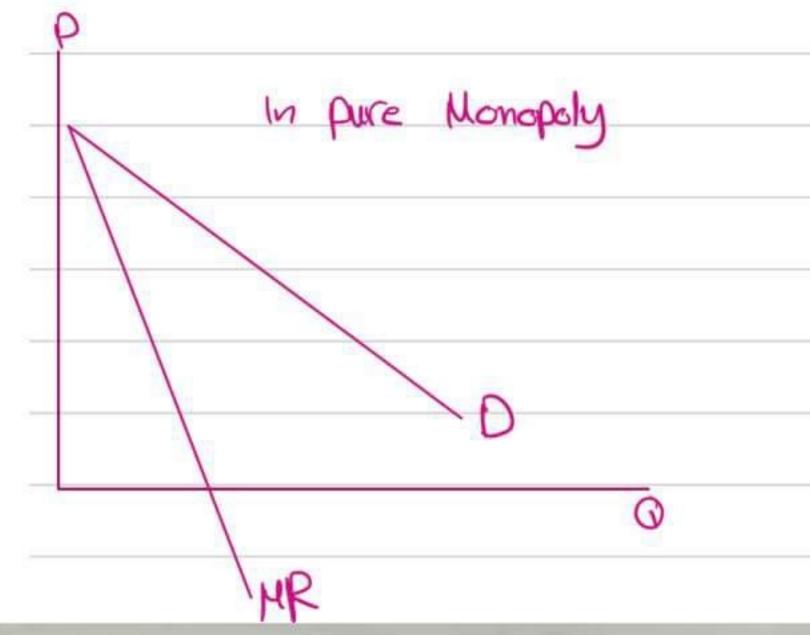


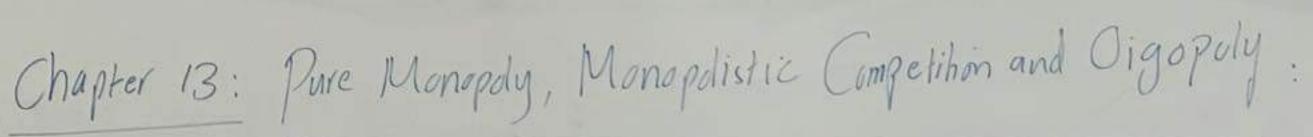




relation ship between MR AND DEMAND

Marginal Revenue.





Example. The demand schedule for the product produced by a monopolist

is given by:

0	Complete	the table	buy	Computing	7

, X		(F-1.
1	325	325
_ 2	300	600
3	275	825
4	250	1,000
<	725	1

200

What is the average revenue (AR) when the firm produce 5 units

AR STR = 1125 = 225 = P

