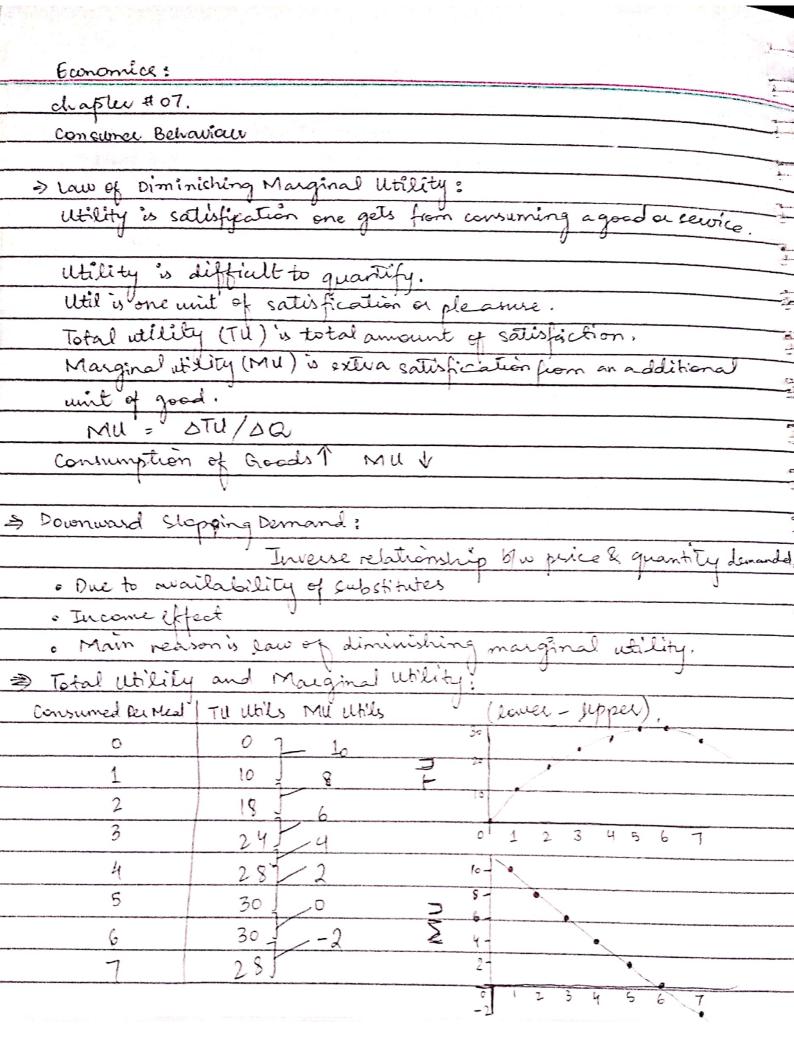
camplex cases:
Increase in Supply, bemand Increase men hamena Quantity
increase nogi price is variable.
chapter # 06
Price Elasticity of Lemand
Price Elasticity of Demand · Measure responses by picechanging.
Formula:
El = Percentage courage in Price et Product X
Formula: El = Percentage Change in Quantity Demanded of Product X Percentage Change in Price of Product X
Percentage change in Quantity Demanded of = change in quantity demanded of X Product X original quantity demanded of X
Quantity Demanded of = change in quantity demanded of X
Product X original quantity demanded of x
Parcentage Change m - change in price of X
Percentage change in = change in price of X Price of product X original price of X
Price of product X original price of X
Peice & Quantity Demanded 1 Ignore the minus sign, focus on the absolute value.
Taxe the minus sign, focus on the absolute value.
I grove to
· Ed > 1 Elastic
• Ed = 1 unit Elastic
· Ed < 1 Inelastic
Extreme cases:
· Perfectly Industre: Vertically pavallel, Ed = 0. · Perfectly Elastic: Harizontally Pavallel, Ed = 0.
· Perfectly Elastic: Harizontally Parallel, Ed = 0.
· Perfectly Elastic: Horizontally Parallel, Ed = 00.

Total Revenue (TR):
Total pièce/amount, the seller gets from
Total pièce/amount, the seller gets from · sale of product in partiallar time duration.
Calculated By: Product Rice multiplies by quantity sold. TR = P × Q
Product Rice multiplies by quantity sold.
TR = P x Q
· Demand Elastic, PN TRT (Indirect)
· Demand Inelastic, PA TRA (Direct)
· Demand Unit Elastic, No change
& Price changes And TR remains constant?
substitute Goods A Price Clasticity Demand ?
Price of Income 1 Price Elasticity Demand 1
Wreery Goods 1 pice Elasticity DemandT
Price of Income 1 Price Elasticity Demand 1 Wherey Goods 1 Price Elasticity Demand 7 Time 1 Product Demand Elastic 1
Cross Elasticity of Demand
o Measures responsiveness of sales to change in piece of anothe
good
- Substitutes - positive sign (Evian water & Dasaam water)
- Complement - Negative sign (Bigital Cameras & Memory Sticks)
- Independent Goods - zew (Walmuts & plums)
Formula:
Exy = Percentage Change in Quantity Remanded of Product X
Percentage Marion : Pilos
Percentage change in Price of product y
V (

· Income Elasticity of Demand:
- Measures degree to which consumers responde to change
- Measures degree to which consumers responde to change inthété incomes by buying more or less of particular good.
Formula:
Ei = Percentage change in Quantity Demanded
Ei = Percentage change in Ouantity Demanded Percentage change in income
· Pulce Clasticity of Supply!
- Measures responsiveness to pièce changes
Pulce Clasticity of Supply! - Measures responsiveness to pièce changes = Supply is elastic, Quantity supply is responsive to pièce changes = Supply is inelastic, Quantity supply is insensitive to pièce changes
= Supply is inelastic. Quantity supply is insensitive to price changes
Es = Percentage change in Quantity Supplied of Product X Percentage Change in price of product X
Percentage Change in price of product X
· Es > 1 2 supply is elastic
• Es > 1 , supply "is elastic • Es < 1 , supply is inelastic
8 63 6 2 9

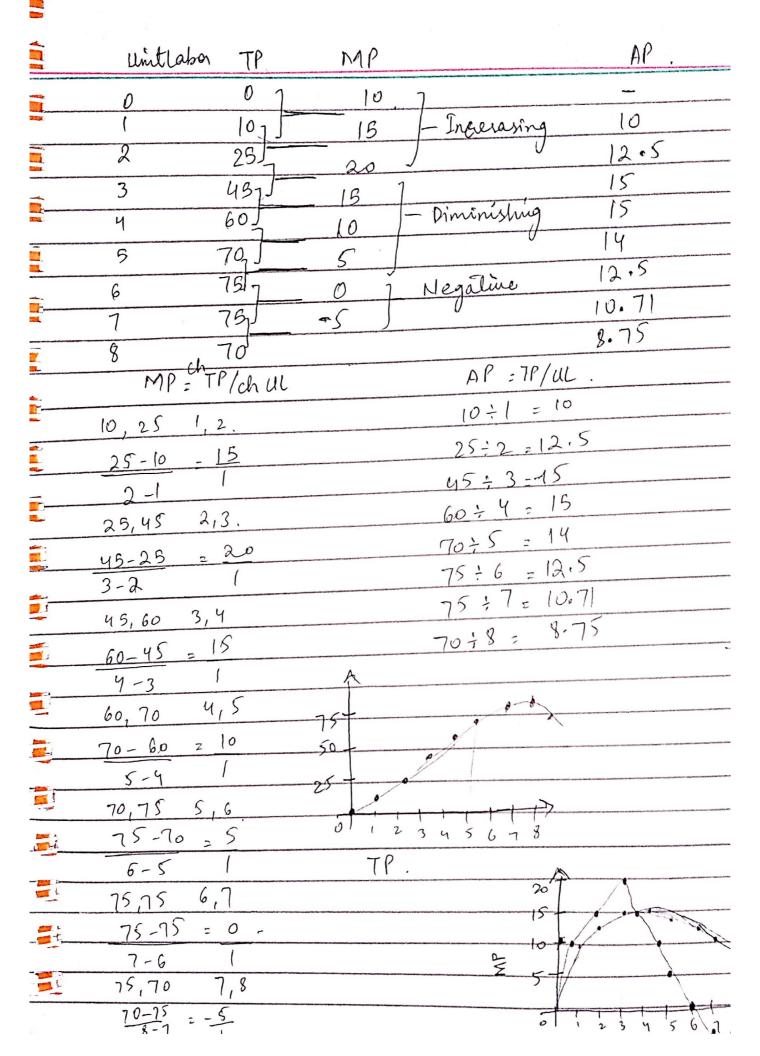


Marginal utility is positive but declining, when total utility is positive and Falling at Decreasing Rate
utility "is positive and
· Falling at Decelaring Rate
marginal utility: consumes 1 Additional Salisfication &
marginal utility: consumes 1 Additional Salisfication & The This positive, means consumer's receiving some level
of satisfication from consuming good or sewice. To MU is declining, means rate at which TU is increasing is also decreasing.
- TI MU is declining, means rate at which TU is increasing
is also decreasing,
=> Theory of consumer Behavia:
Rational Behavia
o Preferences
· Budget constraint
• Rinces
⇒ utility raximising lule:
I de la conte en se her money mome so that
The last dollar spent on each product yields the same amount of extra (marginal) utility.
d extra (maignal) utility.
· When the consumer has balanced his margins? using this
rule, he has achieved consumer equilibrium and has no
incenture to alter his expenditure pattern.
al heaically
Algebraically,
Mu of product A = Mu of product B
Mu of product A = Mu of product B Price of A price of B

Economics:
chapter #09 Businesses and-the costs of Perduction
· Economie Costs:
The payment that must, be made to obtain and retain the sewices
of a resource:
Economie costs = Explicit costs + Insplicit costs
- Explicit costs: Monetary payments
- Explicit costs: Monetary payments - Implicit costs: « Value of next best use -self-owned resources.
Example:
Total sales revenue - Rs \$120,000
Total (Explicit) costs \$63,000
Accounting profit & 57,000
Total (Implicit) costs & 33,000
Economèc profit \$24,000
•
· Accounting Profit = Revenue - Explicit Losts
· Economic Profit = Accounting Profit-Implicit Costs or = Total revenue - Economic Cost
or = Total revenue - Econonic Cost
ar = Total Revenue - Explicit Costs-Implicit Costs.
· Short Run
35 ome variable inputs >> fixed plant.
· long Run
de long Run → All inputs are variable d'aviable plant → firms enter & exist

o Short Run Production Relationships
Land 1 1 Product (TP)
- Marginal Product (MP) = Change in TP Navor in labor Input
- Average reduce (11) = 1P
· Fred Cost, Variable costs, Total Costs. Arerage Fixed Cost (AFC)
Short Raw troductions Total Costs.
• Fixed Cost , Vacanco tests; org . Areago Fixed Cost (Afc)
COSTS ACTION TO THE CONTRACT OF THE CONTRACT O
7.1. (^ + (1)) C
- Total cost (TC) Are lage lora cost (TC).
Sum of It and Ive.
TC = TFC + TVC
· long-Rur Production Costs.
-The fixer can change all input amounts, including plant \$120 -All costs are variable in the Long - xim.
- All costs are variable in the long- um.
- Long Rem ATC.
N. C. cent chart rem ATCS
e long run cost aume also known as Planning ausne.
· Economies and Diseconomies of Scale
Commissed Scale
- Economies of Scale
- labor specialization
a Managerial specialization
> Efficient capital
- other factors
- Constant returns to scale.

Tan determine the shu ours of industry.		- Dis economies of scale: - Communication problems - Communication problems - Swinking - Swinking
Auxim.	num AC one minimized.	



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Economics: exo-no-mix	
chaptee # 10.	
Pure competition in the short &	lwv,
* Four Market Models:	Pure
- Pare competition	competition competition
-Pure monopoly	Pure — Oligapoly Monopoly
- Monopolistic competition	Monopoly
- Oligopoly	Market Structure Continuum
0 0	
* Pure competition:	1
characteristics;	
- Very large no. of sellers	
- Standardized product	
- Price takers'	
- Easy entry & exit	
- Perfectly elastic demand	
	ttle as They want at the price.
· Demand graphs as horizon	
- Example : Agriculture.	
* Monopolistic Competition:	
Characteristics:	
- Many sellers	
- Differentiated products	
- some how you can control pi	ce within rather nanow limits
- Relatively easy entry.	
- Emphasis on advertising, but	and names, trademarks
- Example: Retail trade, d	resses shoes.

- * Oligopoly: characteristics: - Few sellers - Standardized or differentiated - Price is limited by mutual inter-dependence. - Significant abstacles while entrying this market - Its a great deal typically, not as such a competition. - Example: Steel, auto, farm implements * Monopoly :characteristics: - One reller - unique product

 - considerable control over puice
 - No entries
 - Public relation advertisements
 - Example: local utilities.

ap	P	TR=P×Qp	MR	change in T	TR
0	131	Ο] _	131	trange in C	-
١	131	131	131	1310-]K
2	131	262	131	1048 -	A
3	131	393	131	786 -	,
4	131	524	_ 131	655 524 - 393 262 -	
5	131	655	_ 13 \	131	MR=A
6	13	786-	_131	0 !	2345678910 Q
7	131	1048	-131 131		
9	131	1179	_131		

* Avera	rge Re	Venus	AD T	-0 -	
· Rev	enue p	eruint	AR . I	0	
			$Q_b \times P$		
* Ma	rginal	Reven	ue = STR		
	()		10 × 0		
Prof	it Max	imalic)W :		
V					
Cilven	Colven	Triven	R-TC App	(From Last Paul	
0			TC= TFC+TVC	TR=QxP	Profit or loss (TR-TC)
	100	0	100	0	-100
	100	90	190	131	-59
2	100	170	270	262	-8
3	100	240	340	393	+53
4	100	300	400	524	+124
5	(00)	370	470	655	+185
6	100	450	220	786	+236
7	(00	540	640	917	+ 277
8	100	650	750	1048	+298
9	100	780	880	1179	+299 < Max. Peofit
(0	100	930	1030	1310	+ 280
TRA 1400 1300 1200	†		Maxi muon «	TR Hormal Profit	Profit
1100-	1		Profit	TC	profit
900	-		/ ,	/	250_
700	-		1 1		150 Marinum
50	0 -	,			80 - C 299
	00-	1			-so- \$ 2 3 4 5 6 7 8 9 1 0
	00-	Profi			-(00.
	_	2 3 4	5670	170	

PLO	fit Maxim	ization:		(V	lling previo	us data)	
		MR-N	1c Approac	elr.	previously for	1'H	
Q	AFC. TEC	AVC = TVC	ATC = TC.	MC = STC	MR = 8	TR-P profit	
0	_	_	_	-	_		
1	100	90	190	90	131	-59	
2	50	85	135	80	131	-8	
3	33.3	80	113.3	70	13	+ 53	
4	25	75	100	60	131	+124	
5	20	74	94	70	131	+185	
6	16.67	75	91.67	вo	131	+236	
7	14.3	77.1	91.43	90	131	+277	
8	12.5	81.2	93.75	(10	131	+298	
the q	11011	8667	97.78	130	131	+299	
10	10	93.	103	150	131	+280	
Ρ	150 = 131 100 = 81 = 50	Economic Visits 1		ATCVC >Smitham			
	Menim	izing Case			acutuba	Par. 10°	
100	P > AVC	izing Case.	1R = M C		=> Production Result?		
P > AVC. where MR=MC Shutdown Case					Profit if P > ATC Loss if ATC > P.		
- Shu	p < Mirim	um AVC		0-77	MC / 1.		
	1.1 P.	oduce? If	puclis - a	> man A1/1			
The second of th	Should 1	, - ()	7 - 07 - 91	> male AVC			
Firm	tity should	1 Can made	co? MRI DI	Mr.0 :	A CONTRACTOR OF THE PARTY OF TH		