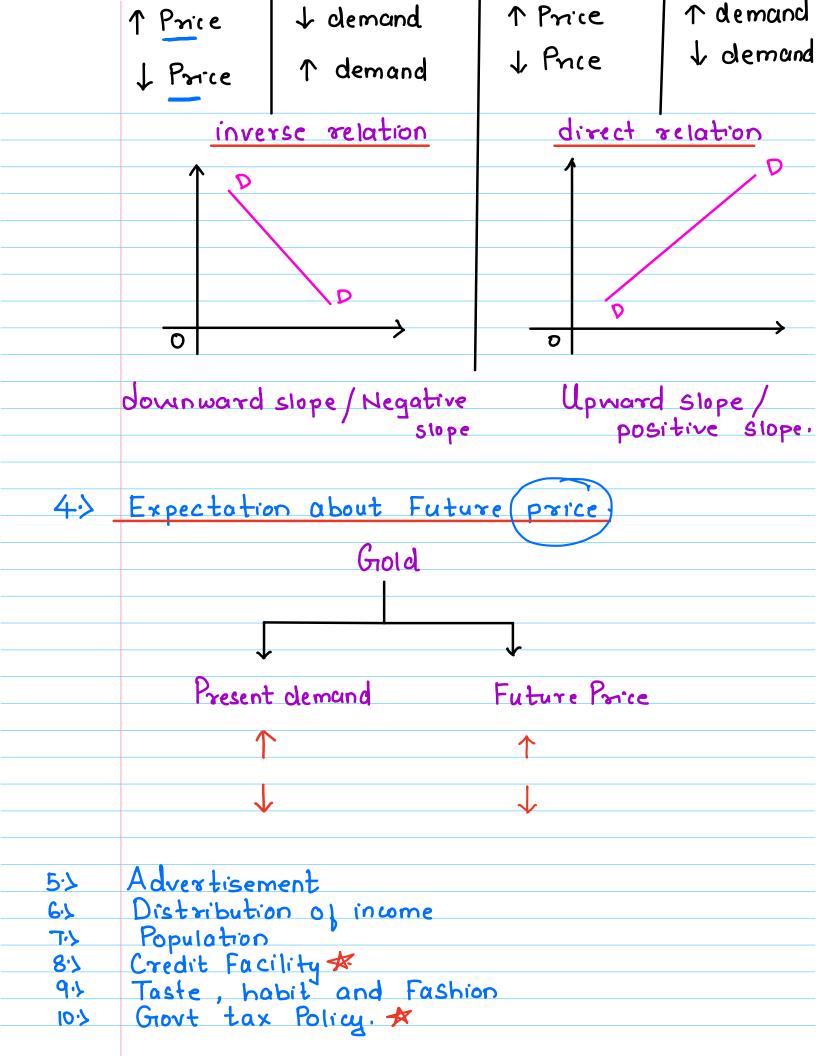
Chap2 Theory of demand and Supply Demand _ Consumer point of Flow Concept · Desire + ability to Pay + Willingness to Spend (At a given price at a point of time) 13 Desire Demand: The term demand refers 23 Ability to Oty of good or service that buyers 32 Willingness are willing and 42 Price able to purchase at a 5:> Time. point of time. Demand Relative Concept inverse Price relation Time. 1 Price I aty demand I Price 1 Qly demand P2

- · Downward stope · Negative stope

	CL					
Note:	When it	is price of o	a Commodity	then only		
	Qty demar	nded should	Come			
	ط					
_	Factors (offecting de	mand Det	erminants]		
17	Price of a C	ommodity	TP JQD JP TQD.			
₩-	Louist impo	rtant Factor	JP TQD.			
	Linos	7				
2.\	Income , Normal goods / Luxury goods Tincome T demand					
income demand.						
	1 in come + demand					
↓ income 1 demand.						
3.7	Price of r	elated goods				
*·		ਹ				
, ,	Compleme	entary	Substitute	a a o o d s		
	Qo	ods		<u> 1</u>		
	Car	Petrol	Pepsi	Coke		



Demand Schedule.

Individual demand Schedule.

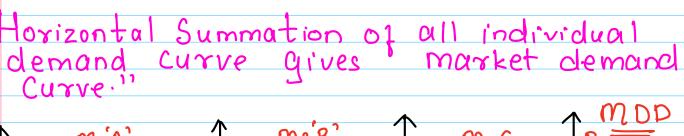
When a Single buyer buying different aty of a Commodity at a different price at a point of time.

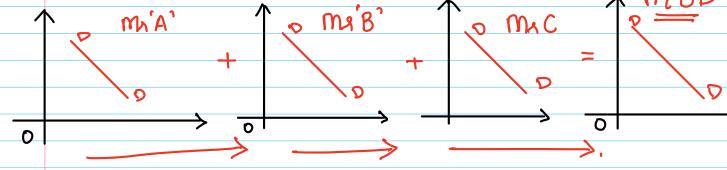
	Qtu		
Pare	Qty Demand		\
10 1	50	— Price	
20	40		
30	30		
40	20		\ \ \
50	10	0	Qty
			· d

* Market demand Schedule.

Many buyers buying different ty of a Commodity at different prace at a point of time.

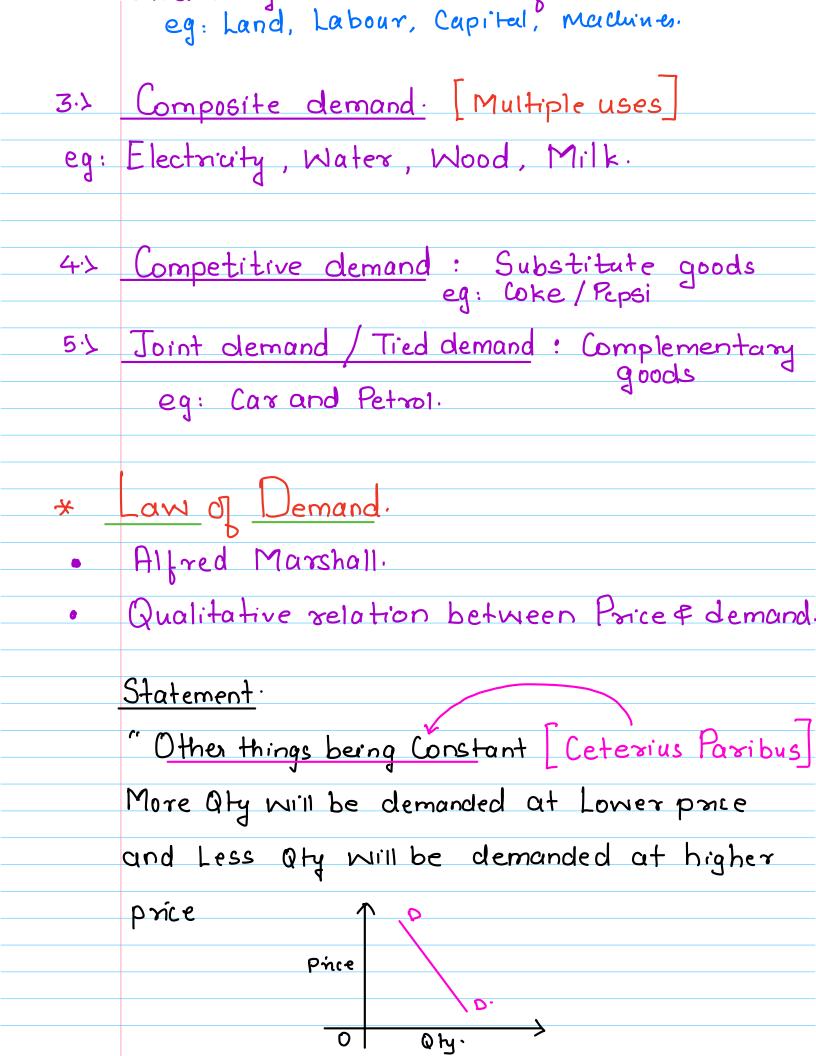
					Market demand [A+Bt
		50+	60 +	70	= 180
	2 1	40+	50+	60	- 150
	3	30	40	50	= 120
	4	20	30	40	= 90
	5	10	20	30	_ 60,
u					



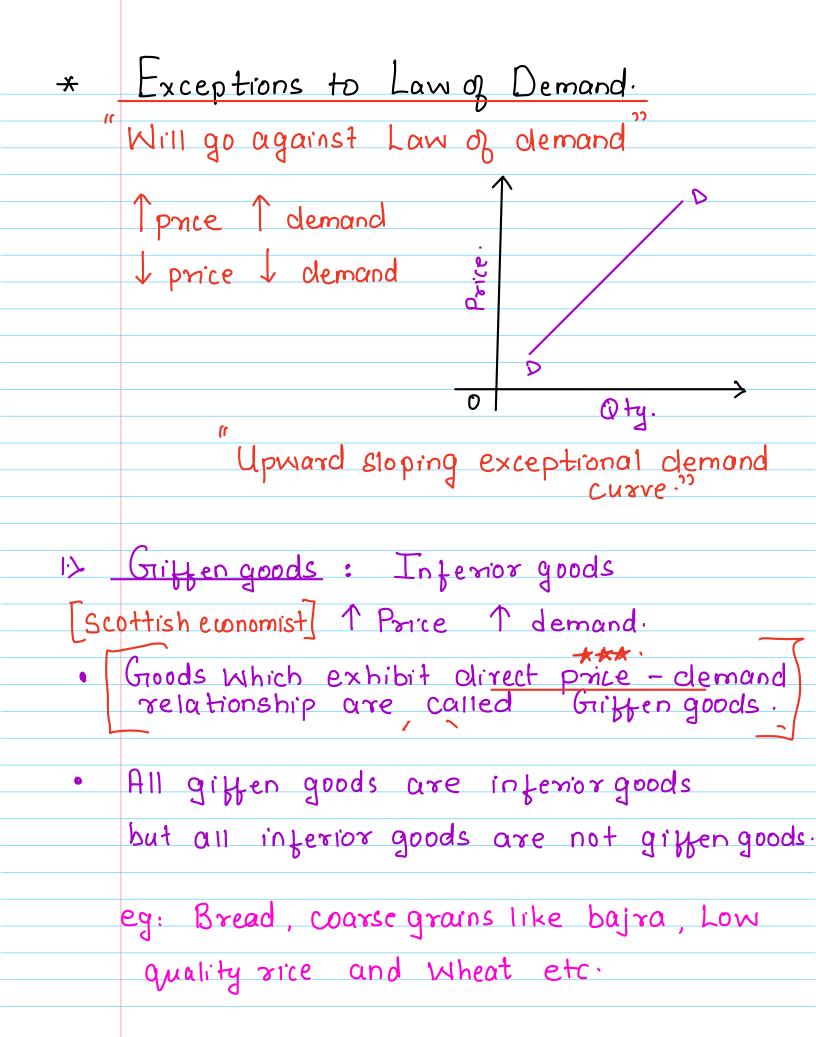


- * Types of Demand.
 - eg: Book, pen, car, Umbrella.etc.
- 2.1 Derived demand/indirect demand.

Produces goods or Factors of Production.



* Why demand Curve Slope downwards. [Rationale of the Law of demand] Law of DMU. 2-> Various uses of Commodity. 3.) Income effect: The increase in demand on account of an increase in real income is known as income effect 42 Substitution effect - Price Income effect + Substitution effect = effect * Law of Substitution effect and income effect Concept is given by "Hicks & Allen" 5> Number of Consumers: When price falls more Consumers Start buying 1

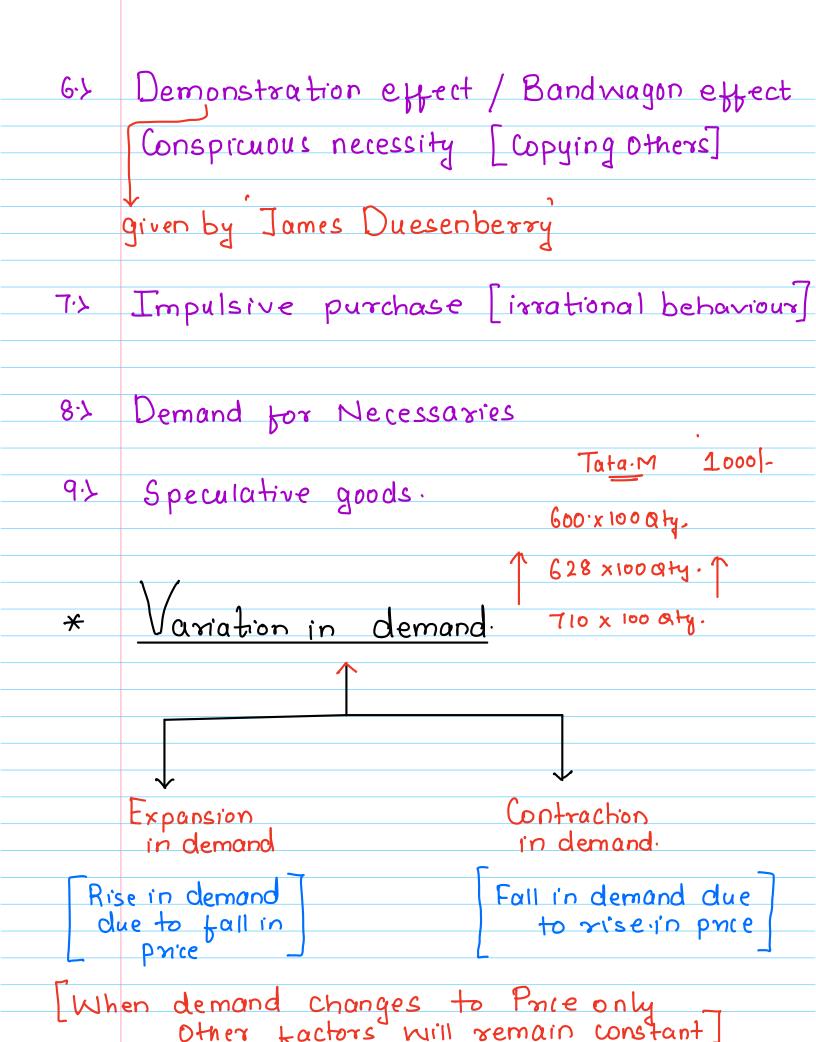


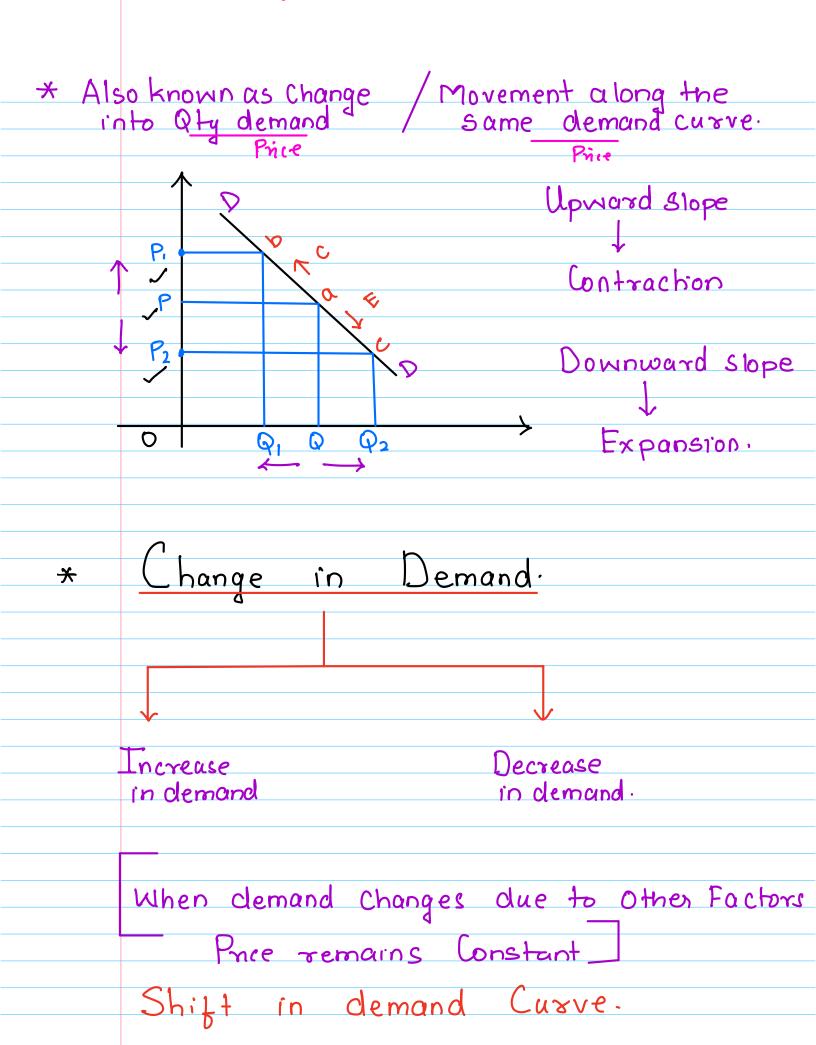
- 2.) Conspicious goods/Prestige goods/Snobgoods

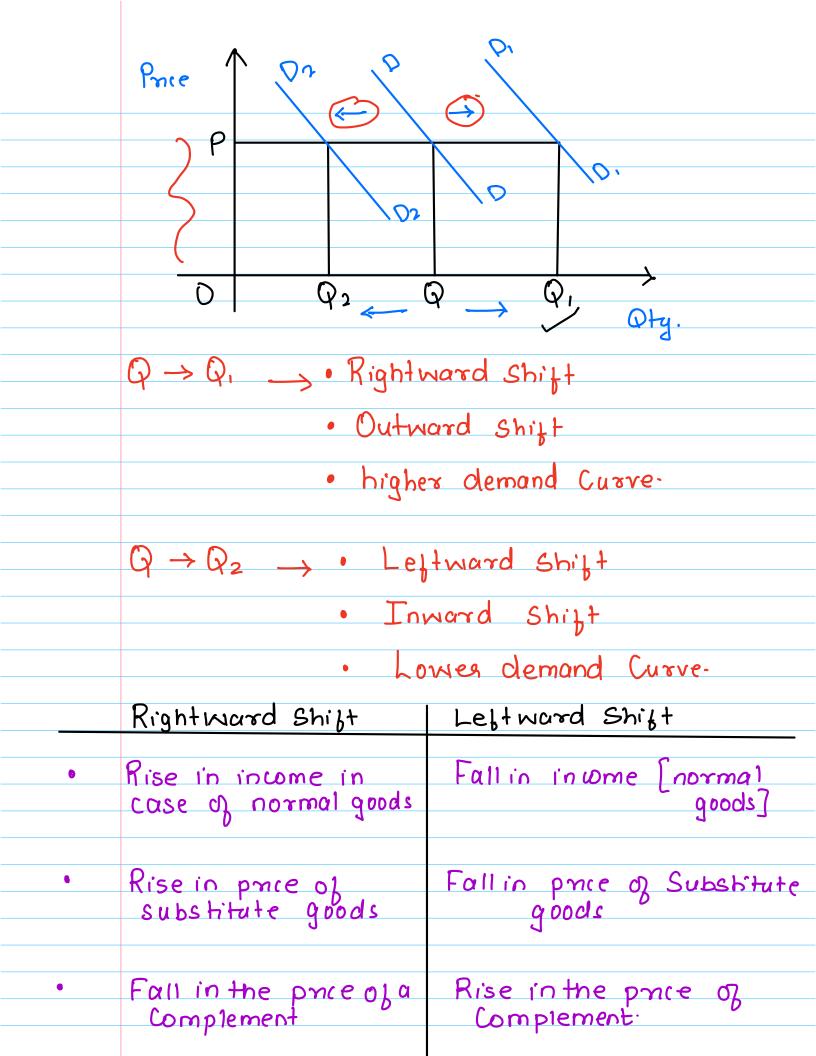
 Veblen goods
 - Veblen effect takes place as some consumers measures the utility of a Commodity by its prize. i.e if Commodity is expensive they think that it has got more utility.
 - · Snob behaviour

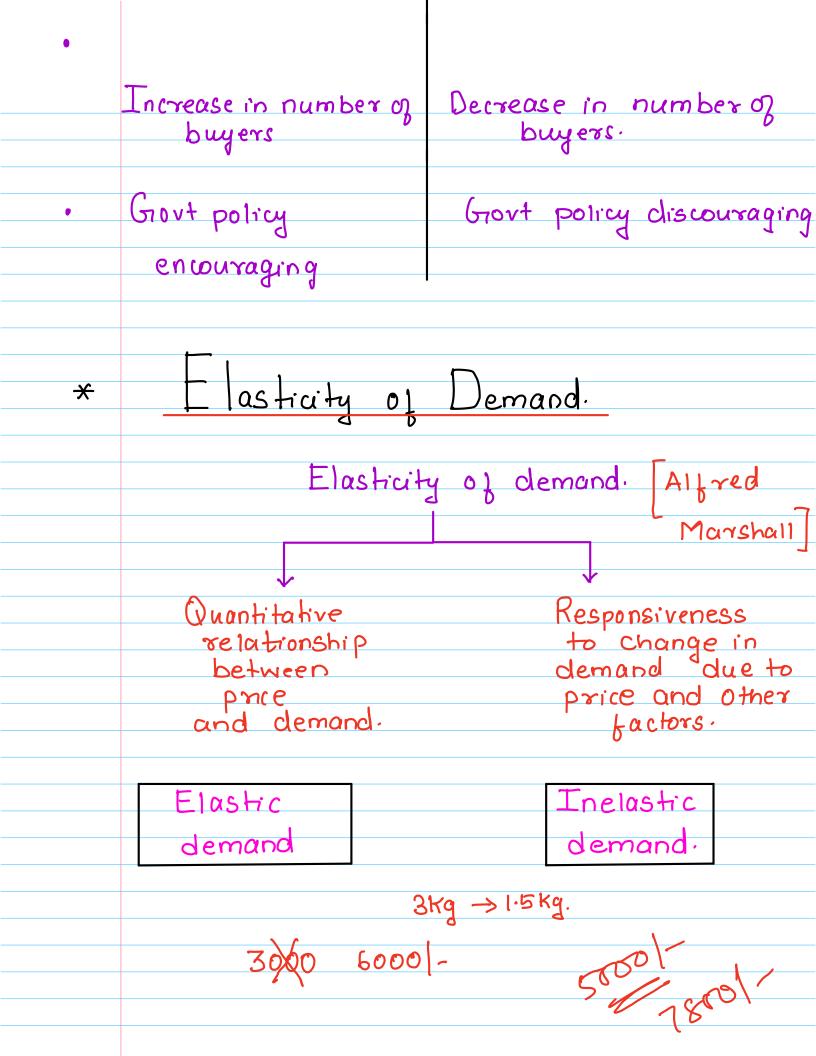
When group of Consumers decides to stop Consumption of a Commodity since it has become very Common in the market.

- 3.> Future expectation about price.
- 4) Ignorance effect
- 5.2 Consumer Price Illusion.









13 Price elasticity of demand.

2.> Income elasticity of demand.

$$E_{y} = \frac{\Delta Q}{Q} \times \frac{\gamma}{\Delta \gamma}.$$

Cross elasticity of demand

Persit Som Petrol

Ochange in Oty DD of Product A

Ec=

% Change in price of Product B

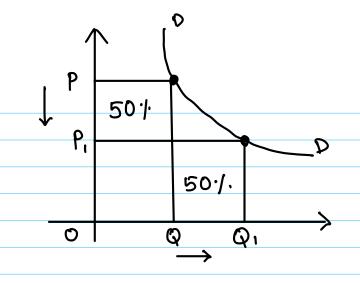
wke cart

Ec =
$$\frac{\Delta Q_a}{Q_a} \times \frac{P_b}{\Delta P_b}$$

4'> Advertisement elasticity of demand.

- * Complementary goods have negative cross elasticity.
- * Substitute goods have positive cross elasticity
- * Unrelated goods have zero cross elasticity.
- * Types of Price elasticity of Demand.
- 12 Unitary elastic demand. e=1

 % Change in Oty demand is equal to % Change
 in Price. [uniform elastic]



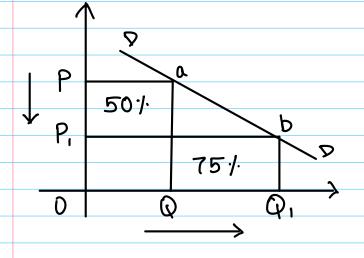
(Normal goods)

Rectangular hyperbola
Curve!

2.> Relatively elastic demand, High elastic demand.

More elastic demand e>1

When % change in Oty demand is greater than % change in Price.



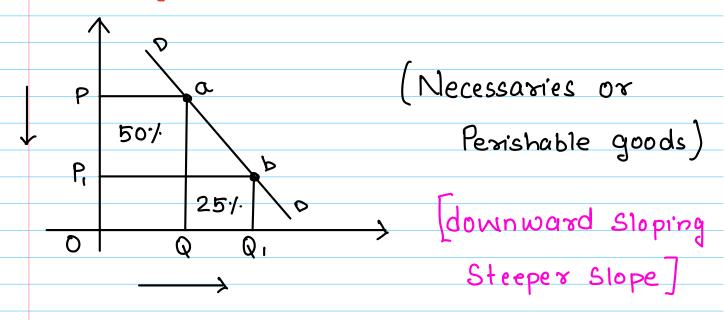
Luxury goods, Superior goods

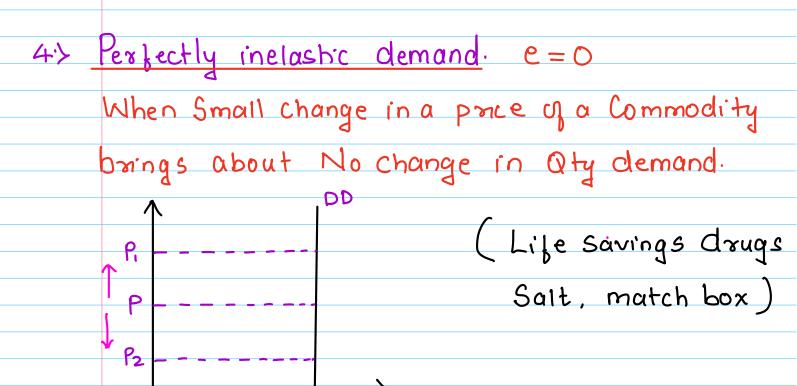
Branded goods

Downward Stoping
Flatter Curre

Relatively inelastic demand, Low elastic demand Less elastic demand exi

When % change in Oty demand is Less than % change in Price



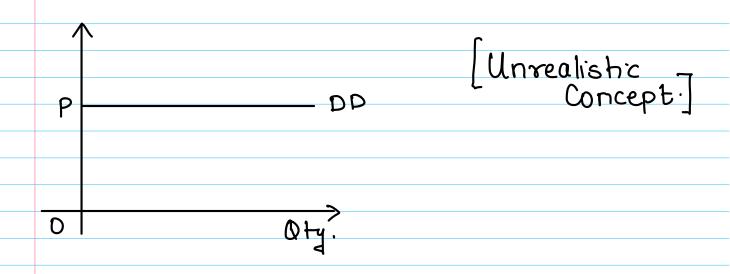


Expectly elastic demand $e = \alpha$.

When Slight Change in a price of a Commodity

brings about infinite Change in Oty demand.

endless Change.

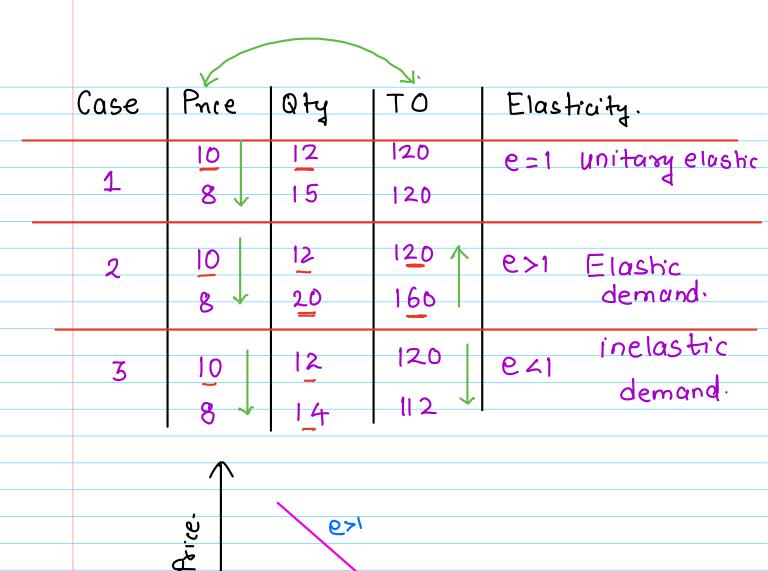


Types of Income elasticity of demand.

- eg: Salt, newspaper, Life saving drugs,
 match box.
- 2) Negative income clasticity ey < 0.
 eg: Inferior goods

- 3.) Unitary income elasticity ey=1
 eg: Normal goods
- 42 Income elasticity greater than One ey>1
 eg: Superior goods, Luxury goods.
- eg: Necessaries or Perishable goods.
- * Methods for measuring elasticity of demand.
- 12 Ratio or percentage method.

 (Same as Price clusticity of demand).
- 2.> Total Outlay method (Alfred.M)
 - Expenditure method.
 - · Revenue method



e=1

Total outlay

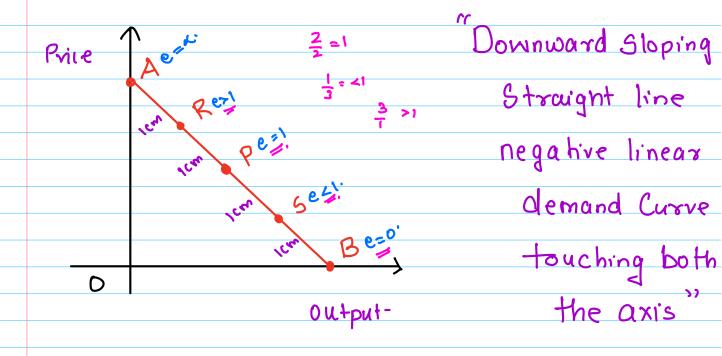
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Ø

3.) Point or Geometric method.

Upper Segment

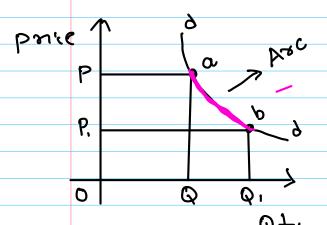
When change in the price is very small. triny, negligible



4> Arc elasticity method.

When change in the price is Large, greater, substantial.

-0.13



ignore negative

Sign'

$$Ed = \frac{Q_1 - Q_2}{Q_1 + Q_2} \times \frac{P_1 + P_2}{P_1 - P_2}$$

Q, P, -> Old Qty and price. Q2 P2 - New Qty and price.

tactor affecting clasticity of demand.

1> Availability of Substitutes

Substitutes ____ elastic

No Substitutes ____ inelastic

2.5 Position of Commodity in Consumers budget · Occupys small part of Budget -> inclostic eg: matchbox. Occupys Large part of our Budget -> elastic eg: transportation. 3.2 Nature of Commodity Necessities -> inelastic Luxury goods __ elastic. 4. Number of uses Multiple uses ____ elastic Single use ____ inelastic. 5:> lime period Short period ____ inelastic Long period _____ elastic 6.5 Consumer habits Addicted / habits __ inelastic No habits -> elastic

てふ	Joint demand.
	Complementary goods inelastic
	[Low elasticity]
0.1	
8.>	Price Range
	Very high price product and a very Low price
	product both are <u>inelastic</u> but a medium price product is <u>elastic</u>
	price product is <u>elastrici</u>
	<u></u>
	Consumer Behaviour
	Mants
ıι	All desire, motive, need of
	human beings are called as Wants?
•	Wants are unlimited
•	Wants are recurring
•	Wants are Competitive
6	Wunts are Complementary.
•	Mants are Changing with time place.
	person.

	Classification of Wants.
1-\	Necessazies -> Basic human want-
2.>	Comforts -> A(, two Wheeler
3.∕>	Luxuries Lavish birthday, Rolex watch
*	Utility> Abstract term
12	Want satisfying power of a Commodity.
	Capacity of a Commodity to satisfy a human
	want.
	Mish to have something is desire,
	- You put efforts to acquire i't is called
	wants
	eatures of Utility.
1.>	Subjective Concept.
_	Differs from person to person.

2.> Differs from usefulness. Commodity may give utility but may not be useful. eg: Alcohol. 3.> Relative Concept. Related to place and time. 42 Depends on intensity of Wants. 5:> Differs from Satisfaction. 6.2 May not always give you Pleasure. * Types of Utility. 1) Place utility = Transportation 2.2 Time utility = Storage, Warehouse 3> Form utility = Manufacturing process 4) Service Utility = Professional services

5) Knowledge utility = higher knowledge higher utility. 6) Possession utility = Transfer of Ownership. -aw of Diminishing Marginal Utility. 2nd Law Mr Gossen's 1st Law Equi-marginal utility. · Alfred Marshall POE 1890. Cardinal approach _____ Utils. Statement "Other things being Constant Additional benefit which a person derives from increase in a stock of a

thing diminishes with every increase in a

Stock that he already has.

* Total utility: Utility desired by a Consumer after Consuming all units of a Commodity.

TU = & MU.

MUn= Tun-Tun-1

 $MU = \frac{\Delta TU}{\Delta Q} \rightarrow \frac{18-10}{2-1} = 8_{\mu} MU$ Mango //

No g units TU MU

10 10 \rightarrow Highest satisfaction

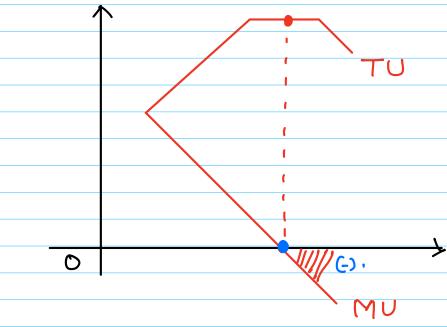
2 18 g3 22 g4 22 gFull Satisfaction

20

5

-2 -> Disutility.

- * Shape of TU = Inverted 'U'

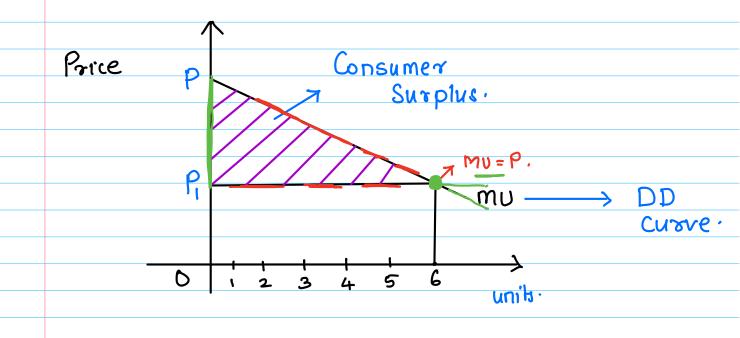


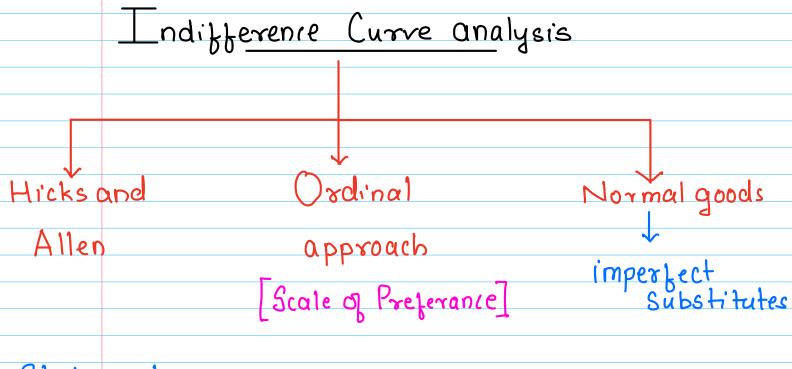
- Assumptions.
- Homogenity
- 2. Single use.
- 3.2 Rationality.
- 45 Continuity
- 5.> Reasonability

Consumer Surplus.

		<u> </u>	
		(mบ)	(Market Paice)
	CS=	: Price ready to -	- Price actually paid.
Basedon		Pay	paid.
Lang		/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1
Dmu	K		
		Consumer	Extro utility
Cardinal	4		0
approach	-	Surplus	
			2 10-
A.1 . 1			Monopoly market:
Alfred			
Marshall	LI.	A sel	useful for tax
	•	ghest Cose	policy.
	~1	Necessaries	
	5	140000000000000000000000000000000000000	
	۳	r	7
	[MU]	Market Price	
No of units	Ready to	Price actually	Consumer Surplus.
U	Pay	pou'd.	,
	30	20	10
'			
2	28	20	8
3	26	20	$\frac{MU>P}{6}$
4 24		20	4
5	22 ↓	20	↓ 2
6	20	20	D Mu=P

20





Statement:

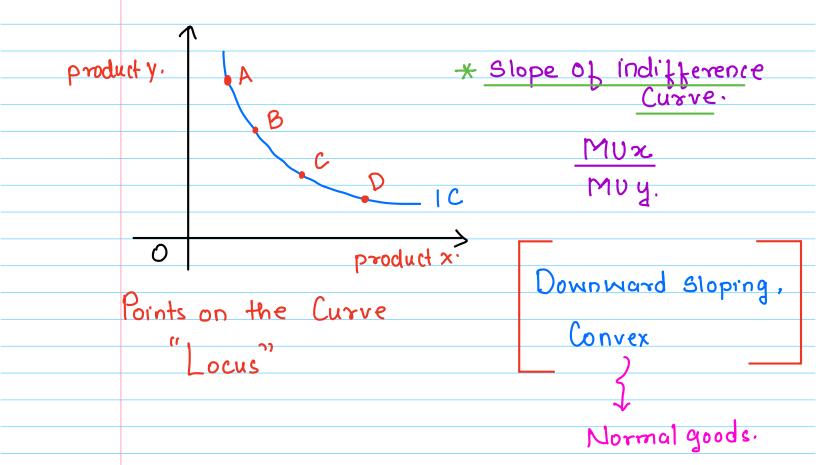
Various Combinations of two goods that will give Same Level of Satisfaction.

•	A
ice-cream	Chowlate.

	Combi	nations	Product >	(Product	· y	MRS	(x,x)	
•	^				12				
	A		\wedge]			
	B		2		6		6		
			2		4		2		
			3		1				
	D		4		3	<i>V</i>			

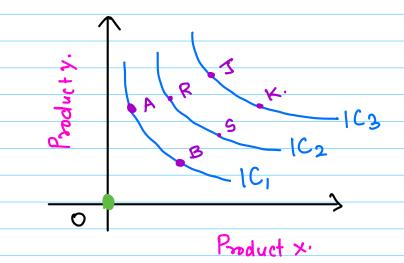
Assumptions:

- · Only two goods
- · MRS is diminishing.

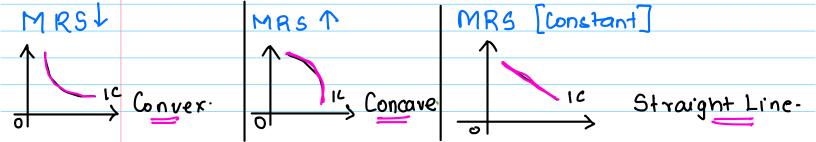


Indifference Map.

A set or a Family of indifference curre gives indifference Map.

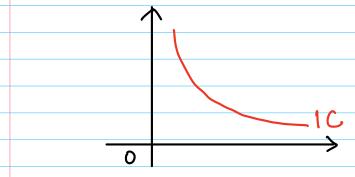


- The Curve Which is far from the Origin higher Satisfaction.
- The Curve Which is near to the Origin
 Lower Satisfaction.
- * Indifference Map is based on Consumer's taste and Prejerance

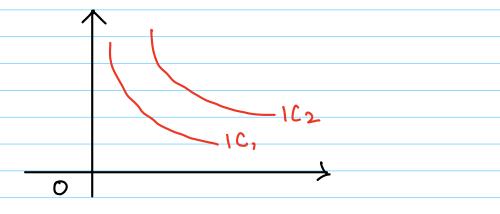


Properties of indifference Curve.

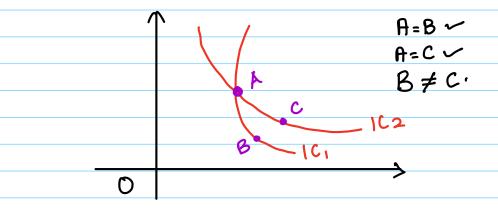
12 IC is downward sloping and Convex.

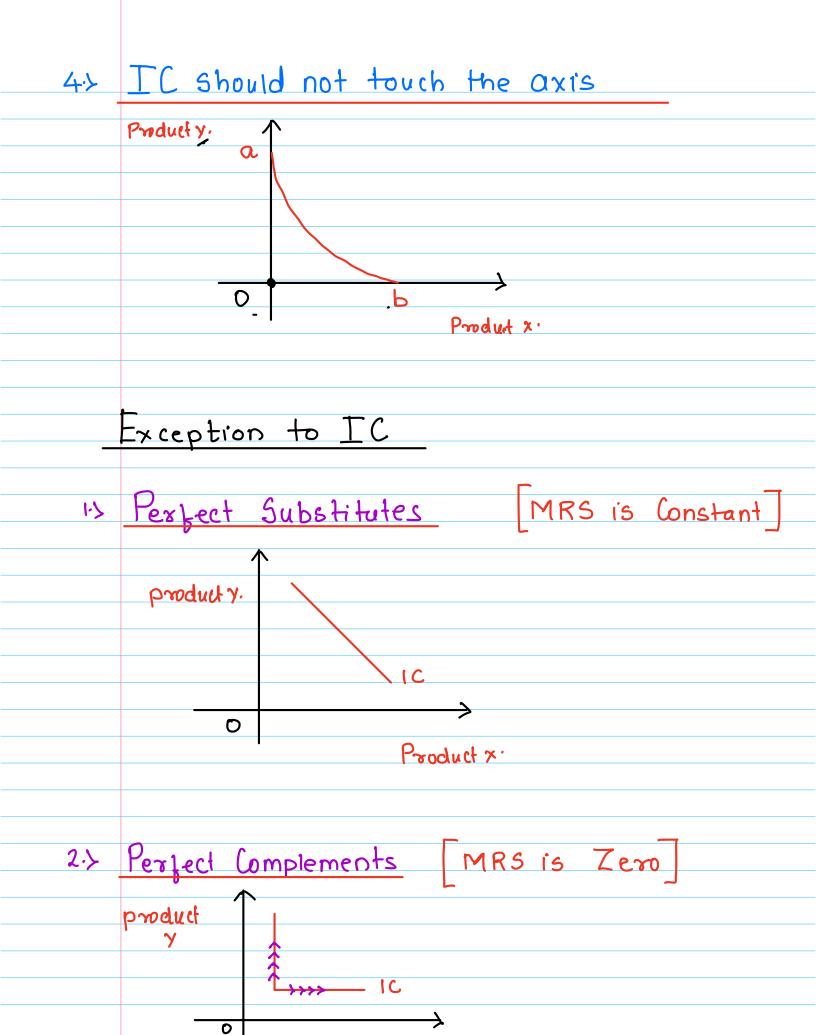


2.> Higher IC gives higher Satisfaction.



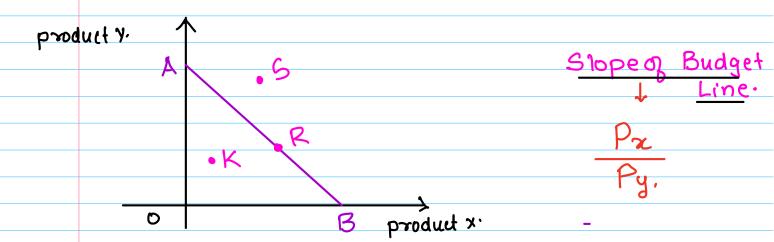
3.> Two IC should never intersect each other





Budget Line / Price Line.

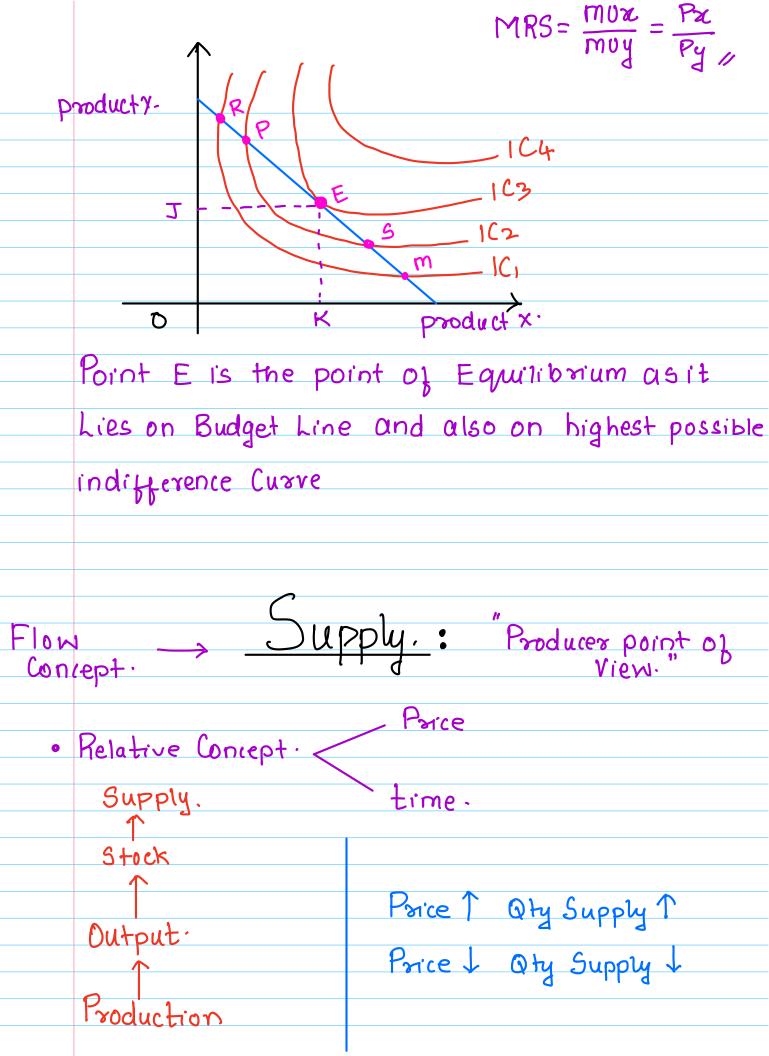
Various Combinations of two goods Which a Consumer can buy with his Money income

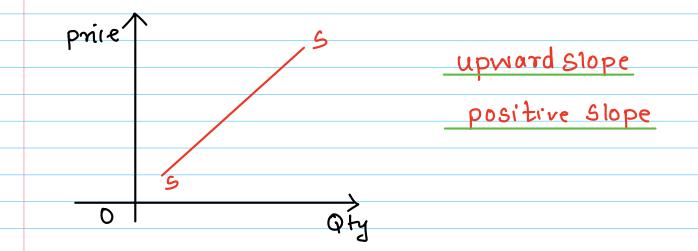


Downward Stoping Constant budget line touching both the axis

Consumer Equilibrium.

- It is a point where Satisfaction is equal to budget
- The Consumer is said to be in equilibrium When he maximizes his satisfaction.
- · IC3 is tanget to budget line at point 'e'





Definition

- Supply is defined as a Oty of a Commodity Which is offered for Sale in the market at a given price at a point of time.
- Producer plan's to sell at a given price at a point of time.
- · Producer is able and willing to Offer.

 at given price at a point of time.

-X-	Factors/Determinants of Supply.					
1.7	Price of a Commodity					
2.>	Price of related goods 500 400					
	550 600					
3∙>	Cost of Production.					
4>	Technology					
	Grovt policy Tax 1 51 Subsidy 1 51 Tax 1 51 Subsidy 1 51					
6.>	Time Short period Less Supply Long period More Supply.					
7:>	Number of Firms					
	Monopoly - Less Supply					
	Competition high Supply.					
8.7	Natural Factors					

Law of Supply

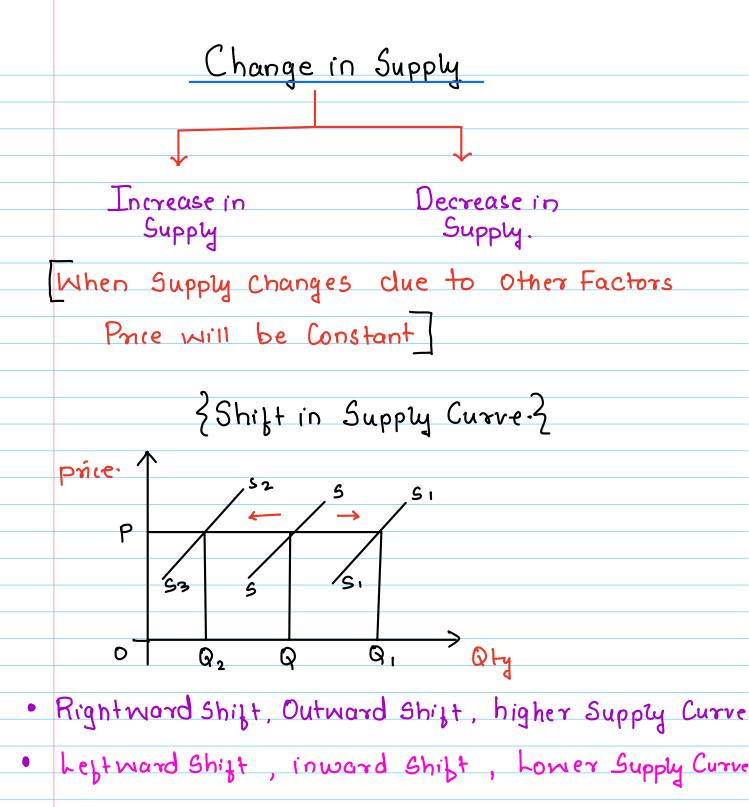
- · Alfred marshall POE 1890
- · Direct relationship between Price & Qty Supply

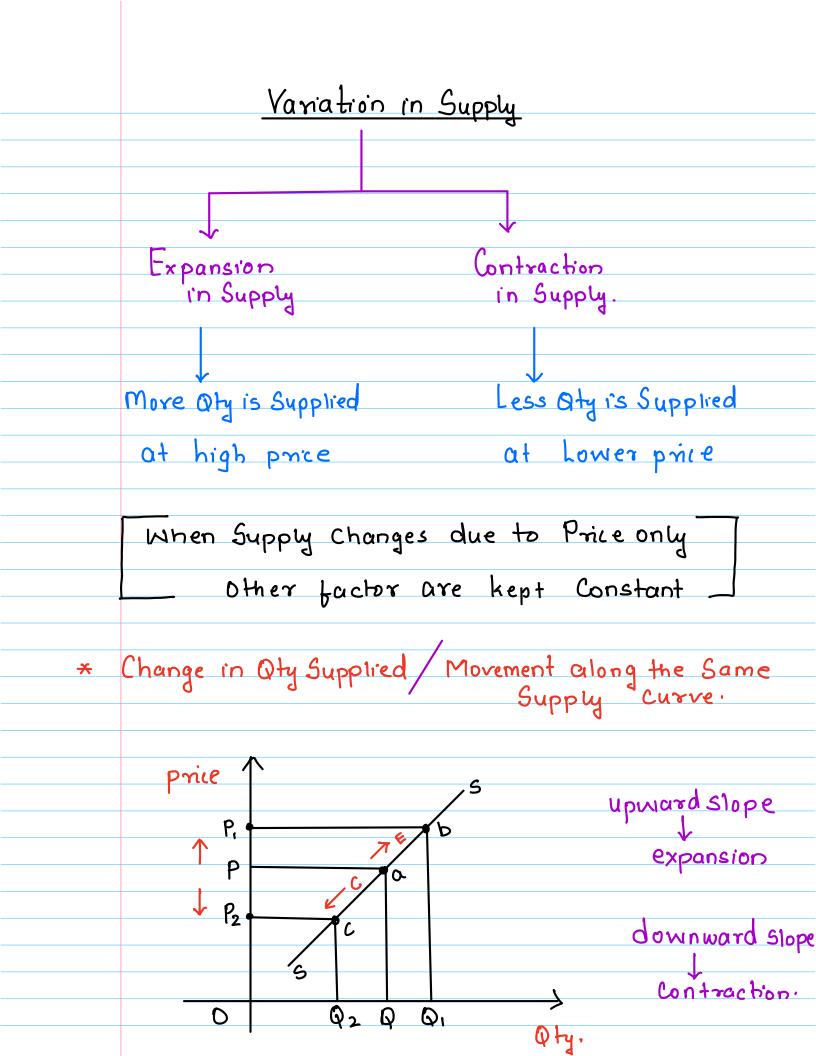
Statement.

Other things being Constant

More aty mill be supplied at higher price and Less aty mill be supplied at Lomer price

_			
Price	Qty SS		<u> </u>
10	60	_ price	/ / /
1 20	70 1		
36	80		
40	90		' 5
50	100	ପ	Oty
			4.9





Elasticity of Supply

Responsiveness to change in Supply due to Price

Elastic Supply

Inelastic Supply

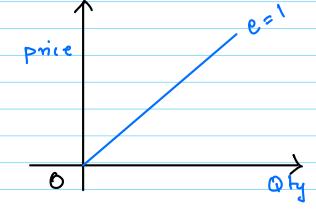
Price elasticity = % change in Qty Supply

Of Supply % change in Price.

Types of Price Clasticity of Supply

12 Unitary elastic Supply e=1

% change in Oty Supply is equal to % change in Price.

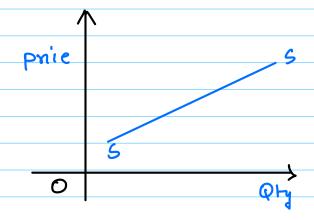


2.> Relatively elastic Supply / High elastic Supply

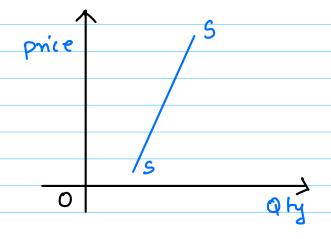
More elastic Supply 671

% Change in Oty Supply is greater than

than 90 Change in Price



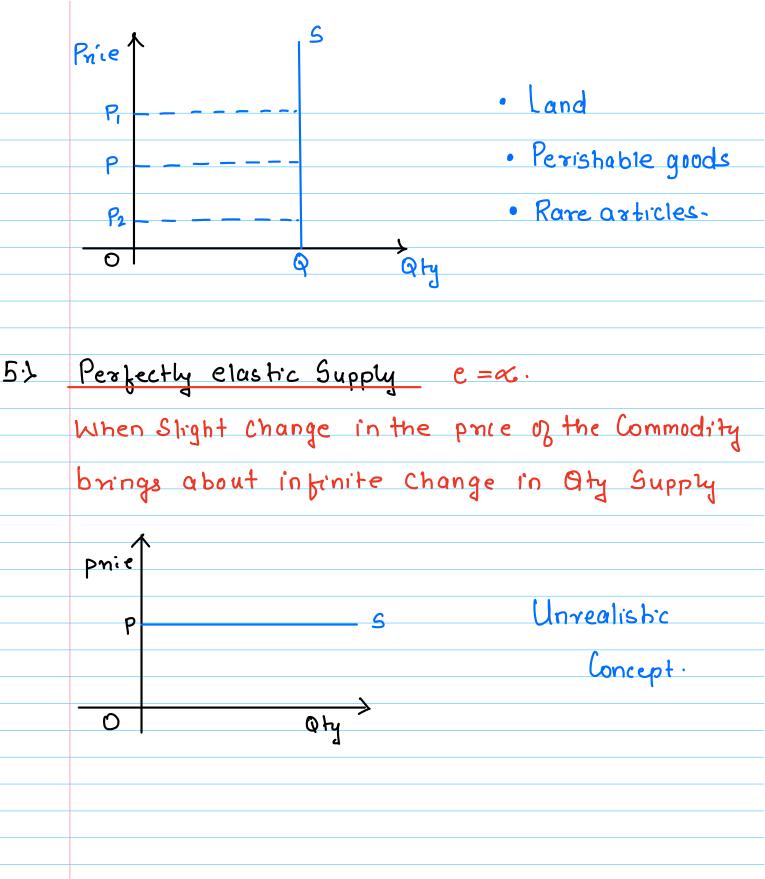
3.2 Relatively inelastic Supply / Low elastic Supply
Less elastic Supply ex1



% change in Oty Supply
is Less than
% change in Price.

4x Perfectly inelastic Supply e=0

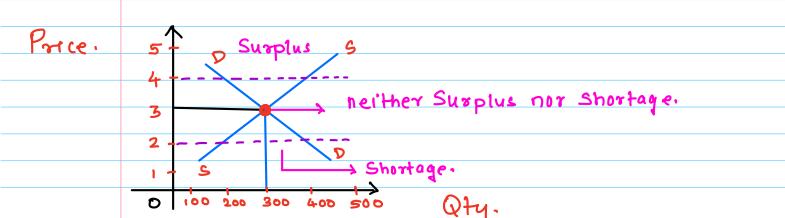
When Slight Change in the Price of the Commodity brings no Change in Qty Supply.



Equilibrium Price.

- It is that price where Qty demand = Qty Supply.
- Equilibrium price is also known as
 Market Clearing Price.
- In equilibrium price there is no shortage no Surplus.

Price	Qty DD	Qty SS	Effect on Paice.
	4	3	- 00
5	100	500	Price
			(falls)
4	200	400	
3	300	300	Equal
2	400	200	
	400	100	1 Price (Rises)
	500	100	(111000)



1> When DDT supply Constant - Oty DDT Price T When DD & Supply Constant -> Oty DD & Parce + 2.\ When SST demand Constant ___ Oty SST Price + **3**·人 When SSI demand Constant ___ Oty SSI Price 1 4> 5.) When DDA SSA but proportion is not given Qty DD and 55 both 1 Price may either rise fall or remain Constant'