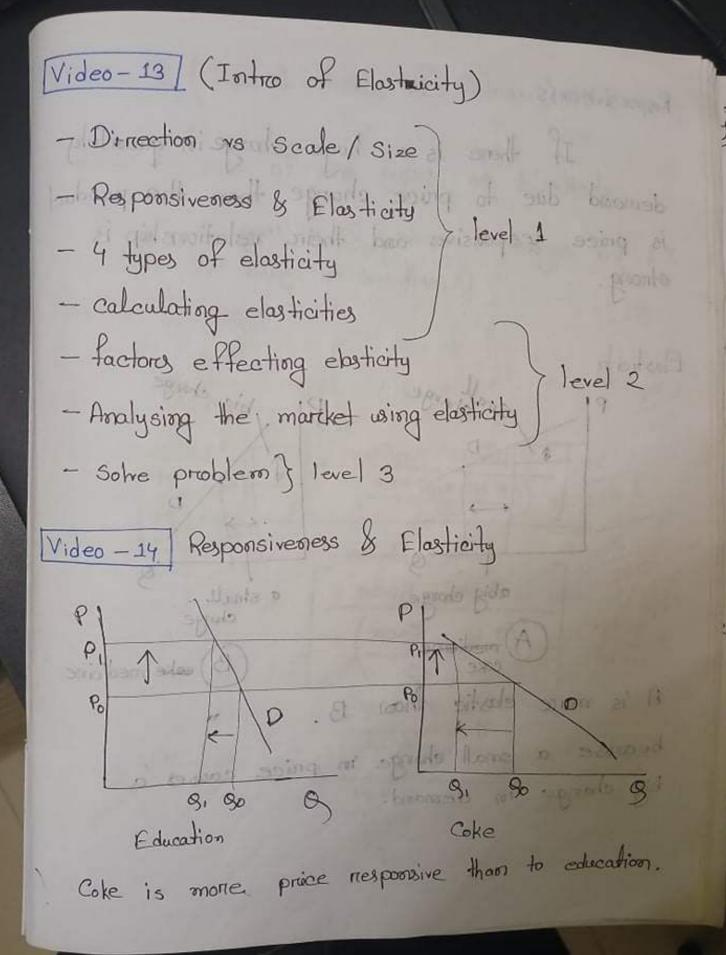
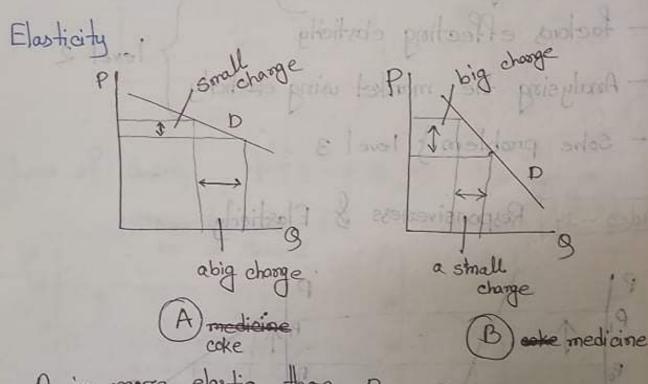
Video -12 (Direction Vs Scale)/size Low of Demand PT + > 90+1 (Depend on Directions) Amoves in opposition direction. of soing to lin bon on priling Law of Supply P1+ -> 8014 (Depend on Directions) These two satisfy the law of Demand (Potrotot) Coke Medicine (strong relationship) Eweek (weak relationship) ENTAL DISENT domand STEATS EWST 3 236 FT demand slightly PSTO) 2454 }



Responsiveness (phinialzala to mital)

If there is a huge change in quantity demand due to price change then the product is price tresponsive and their relationship is strong.



A is morre elastic than B. because a small change in price causes a big change in demand.

posterior of conf. according when

Video - 15 (Proce Elasticity of Demand) PED - PED is one of the types of Elasticity. The 1. changes in Sp when P changes by 17. is (this y. will always be less than 1) Foremula of PED alt top so ! אר שונה אסי לוה new9p - old Op new 90+ old 90) law of demond. PED = new Op - old newp - old P newp + old P) 200 10 1/100 al 80 - 88 80+88 70.39 14-10 14+10

Example: P BD old 75 new 7 90 175 to mo 4 179

X 1 pd opposed [175 - 200] of separate X and (175+200) /9 No , queste - 0.47

we get the negative value because of the law of demand.

P = 1

:. if price change by 1%. So will change by 0.47 %.

Values of PED

- 1. PED < -1 -> PED is elastic -
- 2. PED (0,-1) -> PED is initiastic
- 3. PED = -1 -> PED is unit elastic
- H. PED = 0 perchectly in elastic
- 5. PED = ∞ → perfectly ebstic
 - > a change in price has no effect in 90.
 - > even if price increase slightly, 30 will fall to 0.

On fells by les thron

Video - 16 (Total Expenditure & Total Revenue) Normal formula of TF 21 PED ((0, 1) - 4 PED is industic the total expenditure = 8 x P 1 = 019 .8 (TE) o = 0 = 0 = 0 = 0 = 0 - if demand is elastic -> due to 1% increase in price P TE = Q x P Sp will fall by more The to pledoile seem than 1 %, I have a _ if demand is inelastic -> due to 1% increase in P. TE = BxP 90 falls by less than

total revenue = 9 x p

Video-17 (In come Elasticity of Demand) YED - The % change in So when income changes by 1%.

YED Foremula

Example: 7 90 0th other so 12000 80

Old V (Brown Clarifichy of Demond) VED

if income change by 1%, 80 will change by 2.54%.

YED Formula

Values of YED

- 2. YED ((1,0) -> in elastic) decrease case
- 3. YED € (0,1) -> inelostic]
- 4. YED > 1 -> elastic

1. YED <-1 > elostic } inferciore goods (-)

normal goods (+) incheas case

Video - 18 (Cross Elasticity of Demand) XED

- The change in So of Good A if the price of Good B changes by 1%.

Foremula of XED 2 2 12 10 state of months

$$XED = \frac{\left[\begin{array}{c} ne\omega \otimes_D^A - old \otimes_D^A \\ ne\omega \otimes_D^A + old \otimes_D^A \end{array}\right]}{\left[\begin{array}{c} ne\omega \otimes_D^B + old \otimes_D^B \\ \end{array}\right]}$$

$$PED^{6} = \frac{\begin{bmatrix} 50 - 60 \\ (50 + 60) \end{bmatrix}}{\begin{bmatrix} 120 - 100 \\ (120 + 100) \end{bmatrix}}$$

$$= \frac{-10}{55} / \frac{20}{110}$$

:. when pB change by 1%, 80 change by 1%.

B is unit elastic

age blo _ again

Circl & chords ph 15

献

Values of XED

1. XED $\langle -1 \rightarrow \text{elastic} \rangle$

2. XED ((1,0) -> inclostic)

3. XED ∈ (0,1) → inelostic

4. XED > 1 -> elastic of

goods goods

Substitute goods

Video - 19 (Price Elasticity of Supply) - PES

— The change in 95 when the proce changes by 1%.

Foremula of PES

$$PES = \begin{bmatrix} newQ_s - old Q_s \\ (newQ_s + old Q_s) \end{bmatrix}$$

$$[newP - oldP]$$

$$[newP + oldP]$$

$$2$$

example: P 9s

old 85 93 | PES is positive 1)

new 60 71 | due to the law of demand.

Value of PES

1. PES € (0,1) → Supply is inclusticity

2. PES > 1 -> Supply is elasticity

[Video-20] (Interspretting the values of Elasticity)

Price elasticity of demand

- This is always negative and o sometimes

Income elasticity of demand

- This can be positive and negative

Cross elasticity of demand

- This can be both positive and negative
- XED <-1 elastic o complement
- 0> ×ED>-1 inelastic complement
- XED =0 no relations
- 1> XED >0 inclustic substitue
- XED > 1 elastic substitute
- XED = a perchect complements
- XED = x perfect substitutes

Price elasticity of supply

- This is always positive due to the law of supply
- PES = 0 percfectly inelastic
- 1> PES =0 inelastic

-PES=0 unit elostic - PES>1 elostic - PES = x perchectly elastic steps 1 -> 19 Income elasticity of demand - PED = or perchectly elastic data is a many o - DED <-1 clostic declar pleasure 0 = 039 - DED = -1 Unit elostic - OKPED<-1 Inelastic - PED = 0 | Percfectly inelostic Price elasticity of Demand PED = a perchectly elostic

horasion offeels 1403

Proce elasticity of Demand

PED = \times percently elastic

PED = \(-1 \) elastic

PED = -1 unit elastic

O \(\text{PED} \) \(-1 \) inelastic

PED = 0 percently inelastic

Income elasticity of Demand

YED \(-1 \) elastic inferior

YED <-1 elastic inferior

-1 < YED <0 inelastic inferior

YED = 0 no relation

1 > YED > 0 inelastic normal

YED>1 elastic normal

Video-21 (Factors that affects the elasticity of)
Demand)

1. closeness of substitutes

close substitute -> elastic demand no close substitute -> inelastic demand

2. Proportion of income spent

large parct of income -> elastic demand small parct of income -> inelastic demand

3. Time since the price change short run → inelestic demand long run → elastic demand

- Pr Video-22 (The factors that affect the elasticity of supply)
- P closeness of substitutes
- F 1. Resource substitution possibility
- o easy substitutability -> elastic supply not easy substitutability -> inelastic supply
- I 2. Time frame of supply
- y short run -> inelastic supply long run -> elastic supply

Video-23 (Elasticity of Demand and decision making))

That means making decision for a product
by knowing their elasticityness.

1. government wants to discourage the componsation of soda

Price

Pr

Price

Video - 24 (Elasticity of supply and decision making) wants to produce and sell ice-creams A percson of checo transmis Price (assuming an C elastic supply) Svantity Price (but supply is elastic) Quartity 90 31

Video-25 (Factors that affect the Elasticity of supply)

1. Resource Substitution Possibility

Easy substitutability -> elastic supply not easy substitutability -> inelastic supply

2. Time frame of Supply

Short run -> inelastic supply long Irun -> elastic supply

Video-26 (Proce Elasticity of Demand)

Elasticity of Demand

Elasticity of Demand = the percentage change in quantity divided by the percentage change in proce.

 $ED = \frac{\Delta Q_D \gamma}{\Delta P \gamma}$

where a is the mathematical symbol for charge in.

P. - The ED is always negative, so we typical drop the negative sign and use absolute value instead. sole - philidologithedos prod Values for Demand Curve | Ep | <1 -> demand curer is inelastic C |ED| > 1 -> demand cure is elastic |Ed| = 1 -> demand curve is unit elastic Midpoint formula of Eo $E_{D} = \frac{7.49p}{49.9p} = \frac{A9p}{Ap} \times 100$ in grantity do the price or type change change Softer - Sbefore ED = (Safter + S before)/2 Pattern - Pheton (Patter - Phetone)/2

Ex: At the initial price of 10, the quantity demanded is 100. When the price ruses to 20 the quantity demanded falls to 90. What is the elasticity?

$$E = \frac{7.400}{7.40} = \frac{A0}{Ap}$$

$$Ag.P$$

$$\frac{\Delta 9}{A \times 9 \cdot 9} = \frac{90 - 100}{(90 + 100)/2}$$

$$\frac{\Delta P}{A \times 9 \cdot 9} = \frac{20 - 10}{(20 + 10)/2}$$

$$= \frac{\frac{-10}{05}}{\frac{10}{015}} = \frac{-0.105}{0.666} \leq -0.158$$

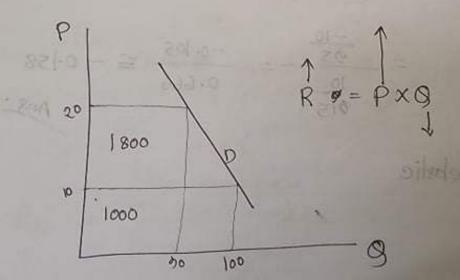
it's inebatic

F - A firm's revenues are equal to price times quantity sold

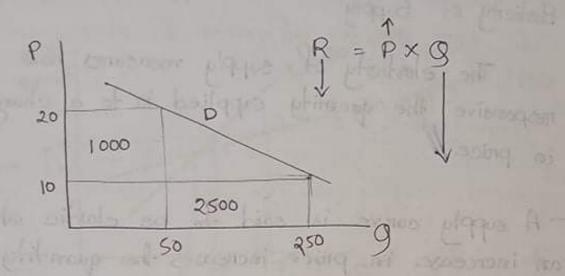
Revenue = Price x Quantity

R = Pxg

- The elasticity of demand is about the relationship between price and quantity and so will also have implications for revenue.
- 1 Revenues Rise as Price Rises if Demand is Inelastic



2 Revenues Fall as Proice Rises with Elastic
Demand Curryes



Relationship among between Elasticity of Demand and Revenues

Video - 27 (Proce Elasticity of Supply)

Elosticity of Supply

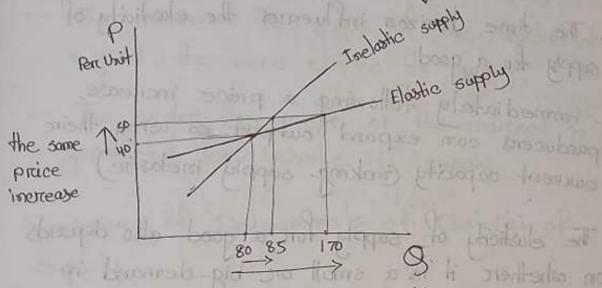
The elasticity of supply measures how responsive the quantity supplied is to a change in price.

- A supply curve is said to be elastic when an increase in price increases the quantity supplied a lot. (and vice versa)
- A supply curve is said to be inclusive when the same increase in price increases quantity supplied just a little.

Determinants of Elasticity of supply

- 1. change in per unit costs with increased production
- 2. Time Horizon
- 3. Share of Marchet forc inputs
- 4. Greographic Scope

1) Elasticity of Supply Captures the Sensitivity of Quantity Supplied to changes in price



increase in quantity increase is quantity supplied if supply is inelastic particular of is clostic leads in place

causes a small causes a big increase in quantity

1. The main determinant of the elasticity of supply is how quickly per unit costs increase with an increase in production

- if increased production requires much higher costs, then the supply curve will be inelastic





- if production can increase with constant costs then the supply cureve will be elastic
- 2. The time horizon influences the elasticity of supply for a good
 - immediately following a proce increase, producers can expand output so using their current capacity (making supply inelastic)
- 3. The elasticity of supply for a good also depends on whether it is a small or big-demand in its input markets, i.e. the industry's share of the demand for its inputs.
- Supply is elastic when the industry is a small demander in its input markets because supply can be expanded without causing a big increase in the demand for the industriey's input.
- supply is inelastic when the industry is a big demander in it's input markets.

- 4. The geographic scope of the market determines elasticity of supply for a good.
- The marchower the scope of the market of a good, the more elastic its supply.
- The wider the scope of the market of a good the less elastic it's supply.

Summarcy of Determinates of Elasticity of Supply

Less Elastic

- 1. Difficult to increase 1. Easy to increase production at constant production at constant unit cost
- for imputs for imputs
 - 4. Gelobal supply

Morre Elastic

- unit cost
- 2. Shoret non 2. Long nun
- 3. Large share of market 3. Small share of market
 - 4. Local supply

Pl - Elasticity of Supply = The percentage change is quantity supplied divided by the percentage change in price

| Midpoint formula for Es
| Midpoint for Es
| Mi

Ex: At the initial price of 10. the quantity supplied is 100. When the price rises to 20. the quantity supplied is 110.

$$\frac{\Delta Q}{A v g Q} = \frac{\frac{110 - 100}{(10 + 100)/2}}{\frac{\Delta P}{A v g P}} = \frac{\frac{20 - 10}{(20 + 10)/2}}{\frac{20 - 10}{(20 + 10)/2}}$$

$$= \frac{\frac{10}{105}}{\frac{10}{15}} = \frac{0.095}{0.666} \approx 0.143$$

Values of Es

|Es| < 1 -> supply curve is inelastic

|Es|>1 -> supply corre is elastic

|Es| = 1 -> supply curve is unit elastic

Present State of International Trade

- The value of global treade is huge.
- In calendar year 2019 (January 1, 2019 December 31, 2019), the value of global exports and imports was 49 trillion US Dollars (USD).
- The value of global exports and imports was more than half of size of the global economy (88 trillion USD) in calendar year 2019.
- In fiscal year 2020 on Fy2020 (July 01,2019—
 June 30, 2020) the value of exports and imports
 and 83 billion USD, which is a quarter on oneforth of the size of the economy of Bangladesh
 (334 billion USD) in Fy2020.

Comparative advantage

- It is the catalyst behind intercnational treade.
- It refers to the situation when a country can produce a good ore service of a lower opportunity cost compared to another country.

- Countries gain by specializing in the production of good in which they have a comparative advantage and then treading with each other.

Video-37 (Gelobal markets in action - Tarriff & import guota)

Tarriff

- Touth refers to a tax on a good that an importing country pays when the imported good pre crosses its international boundary.
- Tariffs are a source of revenue of the got.
- Individuals who work in import competing industries, are benefitted by taxiff.
- It increases the domestic production of the imported good. Hence, domestic producers of the imported good are benefitted by tariff.