

PRESIDENCY COLLEGE (Autonomous)

Microeconomics



Reaccredited by NAAC with A+

Elasticity of Demand





AFFILIATED TO BENGALURU CITY UNIVERSITY, APPROVED BY AICTE, DELHI & RECOGNISED BY THE GOVT. OF KARNATAKA

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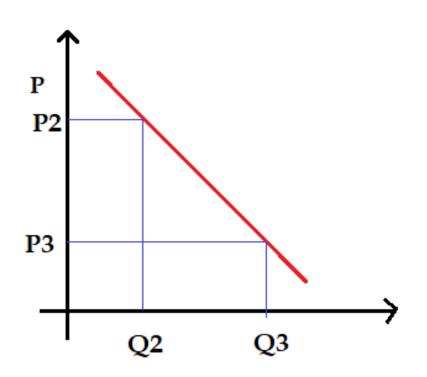
Slope Vs Elasticity

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Quantit y
(Units)
10
8
6
4
2

Slope =
$$\Delta Q / \Delta P$$

Elasticity =
$$\Delta Q / \Delta P * P / Q$$





Slope Vs Elasticity

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O V E R

40

YEARS
OF ACADEMIC
WISDOM

Price	Quantity
(Rs)	(Units)
1	10
2	8
3	6
4	4
5	2

Elasticity = $\triangle Q / \triangle P * P / Q$ $e_p = Q2-Q1/P2-P1 * P / Q$ P/Q => Initial Price & Initial Qty Ep for Price 2 to Price 3 Initial Price 2, Initial Qty 8 Ep = (8-6)/(2-3) * 2/8 = 2/-1 * 1/4= -2* 0.25

= -0.5



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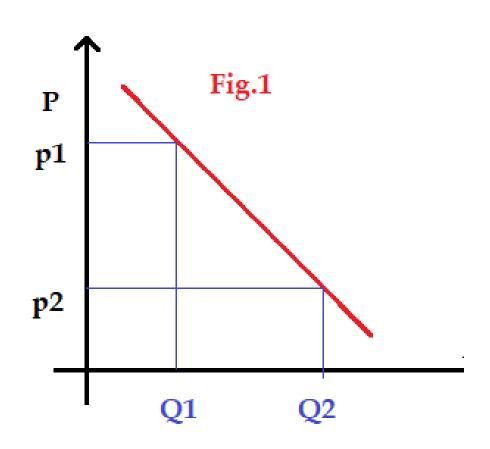
Price Elasticity of Demand



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Detla Q/Delta P=1 Q2-Q1/P2-P1=1

5-3/7-5=2/2

Slope for demand is -ve

Unit Elasticity:

Delta Q = Delta P

Proportion of change in Q

= Proportion of change in P





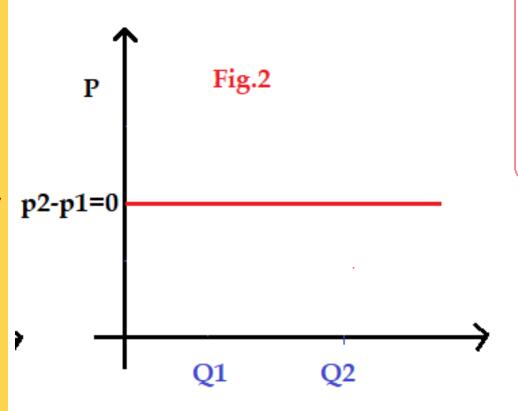
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D.q/D.p=infinite

D.q/0 = Infinite

P2-P1=0

No change in P, change in quantity

Change in Price =0

Ep = Infinite

Perfectly Elastic Demand*



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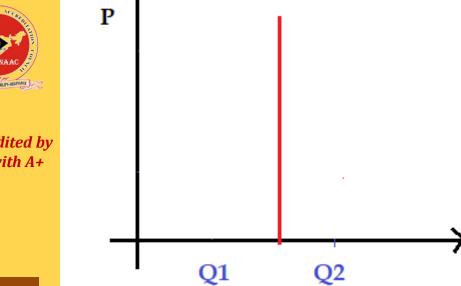
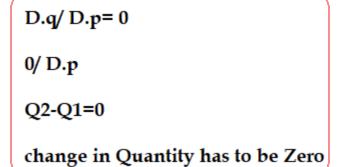


Fig.3



Change in Quantity =0
Ep = 0
Perfectly Inelastic Demand*

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40 YEARS OF ACADEMIC WISDOM

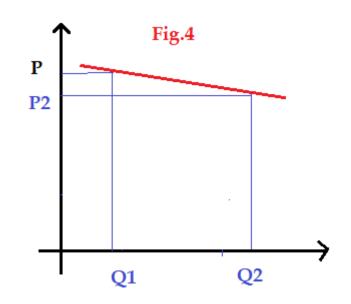


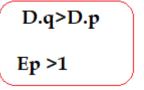


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Change in Q > Change in P Ep >1 **Relatively Elastic Demand***

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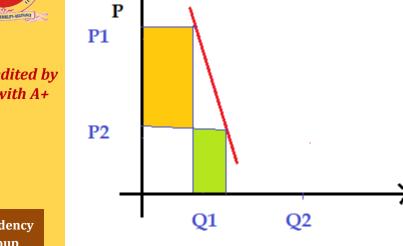
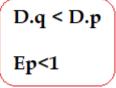


Fig.5



Change in Qty < Change in Price Ep <1

Relatively Inelastic demand.*



OVER





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Price Elasticity of Demand



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- 1) Perfectly elastic demand,
- 2) Perfectly inelastic demand,
- 3) Relatively elastic demand,
- 4) Relatively inelastic demand, and
- 5) Unitary elastic demand.



