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Chapter 7 : Price elasticities of demand

1. Definition of price elasticity of demand

: Price elasticity of demand(PED) measures the responsiveness of quantity demanded to changes in price.

PED = <u>% change in quantity of demand</u> % change in price					
	Price elastic demand	Price inelastic demand			
Definition	onThe percentage change in quantity of demand is greater than the percentage change in priceThe percentage change in quantity demand is lesser than the percent 				
Value of PED	PED > 1	0 < PED < 1			
Curve	Price Demand Quantity	Price Demand Quantity			

2. Determinants of price elasticity of demand

2.1) The number of substitute product

- : The large number of substitute product \Rightarrow Elastic PED

2.2) The period of time

- : In the short run and peak time \Rightarrow Inelastic PED
- : In the long run and off peak time \Rightarrow Elastic PED

2.3) The proportion of income spent on the product

- : The large proportion of income spent on the product \Rightarrow Elastic PED
- : The small proportion of income spent on the product \Rightarrow Inelastic PED

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2.4) Type of products

: Luxury goods

⇒ Elastic PED

⇒ Inelastic PED

⇒ Inelastic PED

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: Necessity, Brand loyalty, Addictive products

2.5) Durability of products

: Durable product

3. PED and total revenue

	Type of PED	Price	Quantity	Total Revenue
1.	PED elastic	企	Demand decreases by a larger proportion.	TR decreased
2.	PED elastic	Ļ	Demand increases by a larger proportion.	TR increased
3.	PED inelastic	Ŷ	Demand decreases by a smaller proportion.	TR increased
4.	PED inelastic	ţ -	Demand increases by a smaller proportion.	TR decreased
5.	PED unitary	Price	Quantity decreases by 10%	TR unchanged
6.	PED unitary	Pri <mark>ce 🌡 10%</mark>	Quantity increases by10%	TR unchanged

4. Limitation of PED

- 1. It is difficult to calculate PED.
- 2. It has time consuming.
- 3. The value of PED changes over time.

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