Microeconomics

Price elasticity of demand

- PED: measures the responsiveness of quantity demanded following a change in price
 - PED < 1 price inelastic
 - PED > 1 price elastic
- Maximising total revenue at unitary elasticity
 - Cut price if elastic
 - Raise price if inelastic

FACTORS THAT AFFECT PED

- Number of close substitutes
 - many close substitutes → price elastic
 - e.g. manufactured goods → price elastic
 - primary commodities → price inelastic
- Addiction price inelastic
 - e.g. PED_{alcohol} is 0.25
- Degree of necessity
 - necessity good → price inelastic
 - luxury good → price elastic
- Proportion of income
 - $\uparrow\% \rightarrow$ price elastic
- Time period following
 - 1 time → price elastic
 - e.g. petrol, energy
- Brand loyalty
 - e.g. Rolex \rightarrow price inelastic, as more advertising and brand strength

LIMITATIONS OF PED

- Hard to calculate accurately
 - Assumes ceteris paribus, which isn't always the case

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- Values vary over time
- Can vary based on income group and geographical location
 - $\uparrow Y \rightarrow$ price inelastic
 - $\downarrow Y \rightarrow$ price elastic
- **IMPACT OF PRICE CHANGE OF TOTAL REVENUE**
- If price inelastic, firm should $\uparrow P \rightarrow \uparrow TR$
- If price elastic, firm should $\downarrow P \rightarrow \uparrow TR$





