Price elasticity of demand 1_Overview

1 Formula

- **Price elasticity of demand (e)** = $\frac{\% \text{ change in quantity demanded}}{\% \text{ change in price}}$
- This elasticity **shows** how quantity demanded and total revenue are affected by changes in price. Question: Should prices be increased or decreased in order to maximize total revenue?
- **Absolute** values are used although the price elasticity of demand is actually negative if the demand curve is downward sloping.
- Demand is **elastic**, if e > 1, and **inelastic**, if e < 1.



| 3 Effect of changes in price on total revenue (TR) | | | |
|--|----------------------------|----------|-----------|
| | Price Elasticity of Demand | | |
| | e > 1 | e < 1 | e = 1 |
| Price increase | TR falls | TR rises | TR |
| | | | unchanged |
| Price decrease | TR rises | TR falls | TR |
| | | | unchanged |





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Link to Youtube videos on "Price Elasticity of Demand, part 1 and 2". Click here.

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