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MODULE S: ELASTICITY
elasticity: a general concept used to quantify the response in I variable when another variable changes
price elasticity of demand: measure of how responsive buyers are to price changes = 1.000
inelastic vs elastic: \varepsilon_n > 1 \rightarrow \text{elastic} (very responsive consumers, flatter demand)
                           \varepsilon_0 < 1 \longrightarrow \text{inelastic} (less responsive consumers, steeper demand)
                           \mathcal{E}_0 = \infty \longrightarrow \text{perfectly elastic (QD drops to O for small price increase, flat demand)}
                           ED = O \rightarrow perfectly inelastic (QD remains constant w) price change, vertical demand curve)
determinants of elasticity: annot of competing products, specificity, necessity, consumer search, time midpoint formula: \sqrt[3]{\Delta QD} = \sqrt{\frac{QD_2 - QD_1}{QD_2 + QD_1}} \times 100
elasticity 3 total nevenue:
                                       P× QD = TR
                                       elasticity tells us which effect wins
cross price elasticity: how sensitive QD is to price changes in other goods
                            E_{xy} = \frac{1 \cdot \Delta QO(x)}{1 \cdot \Delta P(y)}
COMPLEMENTS SUBSTITE
income elasticity: how sensitive QD is to changes in income
price elasticity of supply: how as changes w/ price changes
           inetastic vs elastic: \xi_S = \frac{1/\Delta QS}{1/\Delta P}
                                                              (very responsive supply, flatter supply)
                                     \epsilon_{\rm S} >1 
ightarrow elastic (less responsive supply , steeper supply )
                                                                        ( as drops to 0 for small price decrease, flat supply)
                                     E_s = \infty \longrightarrow perfectly elastic
                                     \varepsilon_{s}= 1 \rightarrow unit elastic
                                                                        (OS remains constant w/ price change, vertical supply curve)
                                     \mathcal{E}_{s} = 0 \Rightarrow \text{perfectly inelastic}
            determinants of elasticity: and of inventory, availability of inputs, capacity, entry 3 exit, time
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