

Chapter 6: elasticity

$$E_D = \left| \underbrace{\frac{1}{\text{slope } D}}_{\text{Constant}} \cdot \underbrace{\frac{P}{Q}}_{\text{average } (\frac{Q_1 + Q_2}{2})} \right|$$

↳ mid-point method

$$\left| \frac{\left\{ \frac{\Delta Q}{Q} \times 100 \right\}}{\left\{ \frac{\Delta P}{P} \times 100 \right\}} \right| = \left| \frac{\Delta Q}{\Delta Q} \cdot \frac{P}{Q} \right| = \frac{\% \Delta Q}{\% \Delta P}$$

Total Revenue when P changes

③ - ① → Area rectangle when price changes
Gain Sacrifice

$E_D > 1$ = TR ↑
 $E_D < 1$ = TR ↓
 $E_D = 1$ = TR No change



Max TR → $E_D = 1$

CROSS PRICE ELASTICITY of DEMAND (E_{xy})

$$\frac{\text{Percentage change in Quantity of } X}{\text{Percentage change in Price of } Y} = \frac{\% \Delta Q_x}{\% \Delta P_y} = \frac{\Delta Q_x}{\Delta P_y} \cdot \frac{P_y}{Q_x}$$

Ex: 10% increase in price of Y → 20% increase in quantity of X
Ex: 10% decrease in price of Y → 30% decrease in quantity of X

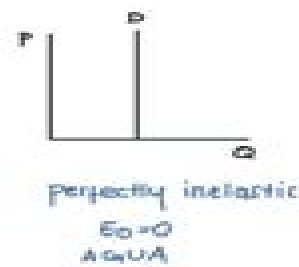
Ex: 10% increase in price of Y → 5% decrease in quantity of X
Ex: 10% decrease in price of Y → 15% increase in quantity of X

Substitution effect

$$SE = \frac{\Delta Q_x}{\Delta P_y} \cdot \frac{P_y}{Q_x} - \frac{\Delta Q_x}{\Delta P_y} \cdot \frac{P_y}{Q_x}$$

ΔQ_x = change in quantity of X
 ΔP_y = change in price of Y

$\frac{P_y}{Q_x}$ = initial price of Y
 $\frac{P_y}{Q_x}$ = initial quantity of X



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Didier Musso



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