

Chapter 5 – Elasticity and Its Applications

Do they depend both on the numbers of hours supplied?

- What is elasticity? What kinds of factors can elasticity depend on?
- What is the price elasticity of demand? How is it related to the demand curve? How is it related to demand's steepness?
- What is the price elasticity of supply? How is it related to the supply curve?
- What are the income and cross-price elasticities of demand?

Do they?

Do they depend both on the numbers of hours supplied?

Do they depend both on the numbers of hours supplied and on the numbers of hours demanded?

Do they depend both on the numbers of hours supplied and on the numbers of hours demanded, and on the timing of supply and demand?

Do they depend both on the numbers of hours supplied and on the numbers of hours demanded, and on the timing of supply and demand, and on the timing of supply and demand?

Do they?

- Elasticity measures how much one variable changes in response to another variable.
 - One type of elasticity measures how much demand for one variable will fall if another variable changes.
- Definition:
 - Elasticity is a numerical measure of the responsiveness of Q^D or Q^S to a change in its determinants.

Price Elasticity of Demand

- Price elasticity of demand measures how much Q^D responds to a change in P .
- It measures the price sensitivity of buyers' demand.

$$\text{Price elasticity of demand} = \frac{\text{Percentage change in } Q^D}{\text{Percentage change in } P}$$



Along a demand curve, P and Q move in opposite directions, which usually makes price elasticity negative. We will take the absolute value and report elasticities as positive numbers.

Example:

The price elasticity of demand for apples is 0.50. If the price of apples falls by 10%,

Calculating Percentage Changes

Quantity demanded will increase by 5%.

Example:

If the price of apples falls by 10%, quantity demanded will

Elasticity And Its Application Chapter Answers

J Ma



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