

Chapter 5 Elasticity and Its Application

Elasticity

-measure of the responsiveness of or to a change in one of its determinants

Elasticity of Demand

-price elasticity of demand =

- = -1.5 (drop the negative) = 1.5

-along the D curve, P and Q move in opposite directions, which would make

price elasticity negative

-how much quantity demanded (Q) responds to a change in the price of that good (P)

-it measures the price-sensitivity of buyers' demand

-midpoint method:

-midpoint = average of start value and end value

-percentage change using midpoint method:

-percentage change (%) = $\frac{\text{new value} - \text{old value}}{\text{average}} \times 100$

-price elasticity of demand using midpoint method:

-price elasticity of demand = $\frac{\% \text{ change in quantity}}{\% \text{ change in price}}$

Calculating Percentage Changes

-standard method of computing the % change: $\frac{\text{new value} - \text{old value}}{\text{average}} \times 100$

-going from A to B:

-% change in P = $\frac{250 - 200}{225} \times 100 = 22.2\%$

-% change in Q = $\frac{12 - 8}{10} \times 100 = -40\%$

-price elasticity of demand = $\frac{-40\%}{22.2\%} = -1.81$

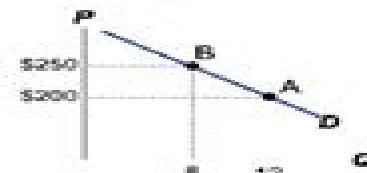
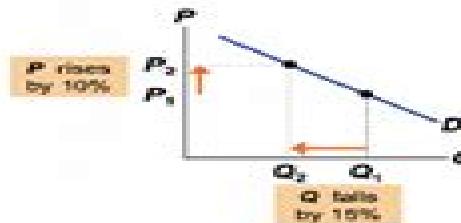
-going from B to A:

-% change in P = $\frac{200 - 250}{225} \times 100 = -22.2\%$

-% change in Q = $\frac{8 - 12}{10} \times 100 = 40\%$

-price elasticity of demand = $\frac{40\%}{-22.2\%} = -1.81$

-using the midpoint method to compute % change:



Elasticity And Its Application Chapter 5 Answers

N. Gregory Mankiw,David R. Hakes

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Computational Science and Its Applications -- ICCSA 2013 Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Maria Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications (ICCSA 2013) held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific applications, high performance computing and networks, geometric modeling, graphics and visualization, advanced and emerging applications and information systems and technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality. **Elasticity** Martin H. Sadd, 2009-02-25 Approx 552

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