

Guided Project 1b: Elasticity in economics

Supply and demand: Derivations

Economists apply the same concepts to supply, demand, income, capital, labor, and many other variables in connection with input and output. In a few words, elasticity describes how changes in the input to a system are related to changes in the output. Because elasticity involves change, it also involves iteration.

In this project we investigate the idea of elasticity as it applies to demand functions. If we consider a situation that as the price of an item increases, the number of sales of that item generally decreases, this relationship is expressed in a demand function.

1. Suppose a gas station has the linear demand function $D(p) = 1200 - 30p$, where $D(p)$ is the number of gallons of gas that the gas station expects to sell per month if the price is set at p dollars per gallon.



2. Evaluate $D(0)$ and show that the demand function is decreasing. Explain why demand functions are usually decreasing functions.
3. Suppose the price of a gallon of gasoline (Figure 1) and 2) increases from \$3.00 to \$4.00 per gallon, will this change up? What is the resulting change in the number of gallons sold, call it ΔD ? (Show that the change is a decrease, so it should be negative.)
4. Now suppose the increase in Step 3 is given in percentages. What is the percent change in price, $\Delta p/p$, when it increases from \$3.00 to \$4.00 per gallon? What is the resulting percent change in the number of gallons sold, $\Delta D/D$? (Show that the percent change is negative.)
5. The elasticity in the demand is the ratio of the percent change in demand to the percent change in price. That is, $E = \frac{\Delta D/D}{\Delta p/p}$. Compute the elasticity for the changes in Steps 3 and 4 (it should be negative).
6. The elasticity is complicated by considering small changes in p and D . In this case we use the definition of the derivative and write

$$E = \lim_{\Delta p \rightarrow 0} \frac{\frac{\Delta D}{D}}{\frac{\Delta p}{p}} = \lim_{\Delta p \rightarrow 0} \left(\frac{\Delta D}{\Delta p} \right) \left(\frac{p}{D} \right) = \frac{dD}{dp} \frac{p}{D}$$

Note the elasticity is a function of p . Show that for the gasoline demand function the elasticity is

$$E(p) = -\frac{p}{40 - p}$$

7. The elasticity may be interpreted as the percent change in the demand that results for every one percent change in the price. For example if $E(p) = -0.5$ is one percent increase in price produces a three percent decrease in demand. If the price of gasoline is $p = \$4.00$ and there is a 1.0% decrease in the price, what is the elasticity and the corresponding percent change in the number of gallons sold?

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Shasha Hu



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Table of Contents Elasticity Of Dem Guided Answers

1. Understanding the eBook Elasticity Of Dem Guided Answers
 - The Rise of Digital Reading Elasticity Of Dem Guided Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Elasticity Of Dem Guided Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elasticity Of Dem Guided Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elasticity Of Dem Guided Answers
 - Personalized Recommendations
 - Elasticity Of Dem Guided Answers User Reviews and Ratings
 - Elasticity Of Dem Guided Answers and Bestseller Lists
5. Accessing Elasticity Of Dem Guided Answers Free and Paid eBooks
 - Elasticity Of Dem Guided Answers Public Domain eBooks
 - Elasticity Of Dem Guided Answers eBook Subscription Services
 - Elasticity Of Dem Guided Answers Budget-Friendly Options

6. Navigating Elasticity Of Dem Guided Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Elasticity Of Dem Guided Answers Compatibility with Devices
 - Elasticity Of Dem Guided Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elasticity Of Dem Guided Answers
 - Highlighting and Note-Taking Elasticity Of Dem Guided Answers
 - Interactive Elements Elasticity Of Dem Guided Answers
8. Staying Engaged with Elasticity Of Dem Guided Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elasticity Of Dem Guided Answers
9. Balancing eBooks and Physical Books Elasticity Of Dem Guided Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elasticity Of Dem Guided Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elasticity Of Dem Guided Answers
 - Setting Reading Goals Elasticity Of Dem Guided Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elasticity Of Dem Guided Answers
 - Fact-Checking eBook Content of Elasticity Of Dem Guided Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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