Unit 04

Exercise 07 - Calculating the Total Revenue and **Elasticity of the Demand (Part 1)**

This exercise aims to help students understand and apply the concept of linear demand curves by interpreting the relationship between price and quantity demanded, practicing basic algebraic operations like calculating intercepts, and determining total revenue. By incorporating each student's unique ID, the exercise personalizes learning, making it more engaging. Additionally, it encourages critical thinking and problem solving by requiring students to analyze the impact of price changes on revenue, thereby preparing them for real-world business scenarios where such calculations are essential for informed decision-making.

Settings: A company produces and sells eco-friendly water bottles. The demand for these water bottles in the market is described by the following linear demand curve: Qd = A-2Pd

a)

b)

c)

the market is described by the following linear demand curve: Qd = A-2Pd		
State your student ID:		
Task 01: Formulate the Demand Equation		
Determine the Current Market Price: (Pd) Calculate the current market price of price is equal to the sum of the last two digits of your student ID plus either '0' If the sum is a two-digit number (e.g., Student ID = 66100088 ; Pd = $8 + 8 = 16$), If the sum is a single-digit number (e.g., Student ID = 66100005 ; Pd = $0+5=5$), if final price will be Pd= $5+10=15$ Calculate the Intercept A: The intercept A is equal to the absolute value of the first 2 digits of your student ID and the reversed last 2 digits, plus 100 . Example: Student ID = 66100005 ; A = $ 66-50 + 100 = 116$ Student ID = 66101240 ; A = $ 66-04 + 100 = 162$ Student ID = 66100088 ; A = $ 66-88 + 100 = 122$ Your answer: Formulate the Demand Equation: Using the calculated values, writes:	or '10'. use the sun ncrease it b	n as it is. by 10, so the between the
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Task 02: Calculate the Total Revenue (show calculation):		
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