

ΑΟΘ 9/11/24

ΠΑΛΙΑ ΤΜΗΜΑΤΑ

ΟΜΑΔΑ Α

A1	Σ	A6	δ
A2	Σ	A7	β
A3	Σ		
A4	λ		
A5	λ		

ΟΜΑΔΑ Β

ΣΧΟΛΙΚΟ ΣΕΜ. 133

ΟΜΑΔΑ ▽

	P	Q _D	Q _S	
A	600	800	2000	↪ E _D = -1,5 ↪ E _S = 1,2
B	700	600	2400	

DL Q_D = a + bP ① Q_S = γ + δP ②

$$E_{D \neq} \quad E_D = -\frac{3}{2} \rightarrow \frac{Q_D - 800}{700 - 600} \cdot \frac{600}{800} = -\frac{3}{2} \rightarrow \frac{Q_D - 800}{100} \cdot \frac{600}{800} = -\frac{3}{2}$$

$$\frac{Q_D - 800}{100} \cdot \frac{600}{800} = -\frac{3}{2} \rightarrow \text{~~Q}_D - 800 = -200 \rightarrow Q_D = 600~~$$

$$\frac{Q_D - 800}{200} \cdot \frac{600}{800} = -\frac{3}{2} \rightarrow Q_D - 800 = -200 \rightarrow \underline{Q_D = 600}$$

$$E_{S \neq} \quad E_S = \frac{6}{5} \rightarrow \frac{Q_S - 2000}{700 - 600} \cdot \frac{600}{2000} = \frac{6}{5} \rightarrow \frac{Q_S - 2000}{100} \cdot \frac{600}{2000} = \frac{6}{5}$$

$$\frac{Q_S - 2000}{100} \cdot \frac{600}{2000} = \frac{6}{5} \rightarrow Q_S - 2000 = 400 \rightarrow \underline{Q_S = 2400}$$

ΑΡΑ

$$\begin{cases} \text{①} \xrightarrow{\text{A}} 800 = \alpha + 600\beta \\ \text{①} \xrightarrow{\text{B}} 600 = \alpha + 700\beta \end{cases} \Rightarrow 200 = -100\beta \rightarrow \underline{\underline{\beta = -2}}$$

$$600 = \alpha - 2 \cdot 700 \rightarrow \alpha = 2000$$

$$\underline{\underline{Q_D = 2000 - 2P}} \quad \text{①}$$

$$\begin{cases} \text{②} \xrightarrow{\text{A}} 2000 = \gamma + 600\delta \\ \text{②} \xrightarrow{\text{B}} 2400 = \gamma + 700\delta \end{cases} \Rightarrow -400 = -100\delta \rightarrow \underline{\underline{\delta = 4}}$$

$$2000 = \gamma + 600 \cdot 4 \rightarrow \underline{\underline{\gamma = -400}}$$

$$\underline{\underline{Q_S = -400 + 4P}} \quad \text{②}$$

$$\sqrt{2} \quad Q_S = Q_D \rightarrow -400 + 4P_0 = 2000 - 2P_0 \rightarrow$$

$$6P_0 = 2400 \rightarrow \underline{\underline{P_0 = 400 \text{ €}}}$$

$$Q_0 = 2000 - 2 \cdot 400 = \underline{\underline{1200 \text{ μ.η.}}}$$

$$\sqrt{3} \quad \begin{cases} \text{①} \xrightarrow{P_A=200} Q_D = 2000 - 2 \cdot 200 = 1600 \\ \text{②} \xrightarrow{P_A=200} Q_S = -400 + 4 \cdot 200 = 400 \end{cases} \quad Q_D > Q_S$$

$$\text{ΕΛΛΕΙΜΜΑ} = Q_D - Q_S = 1600 - 400 = \underline{\underline{1200 \text{ μ.η.}}}$$

$$\underline{\underline{\text{ΚΑΙ ΕΠΙΣΗΣ}}} \quad 400 = 2000 - 2P_2 \rightarrow 2P_2 = 1600 \\ \underline{\underline{P_2 = 800 \text{ €}}}$$

4

② $P=200 \rightarrow Q_s = -400 + 4 \cdot 200 = 400$

② $P=400 \rightarrow Q_s = -400 + 4 \cdot 400 = 1200$

ΑΡΑ

P Qs

200 400

400 1200

↪ Es

$$E_s = \frac{\Delta Q}{\Delta P} \frac{P}{Q} = \frac{4 \cdot 200}{400} = 2$$

$E_s > 1$ ΑΡΑ Η ΠΡΟΣΦΟΡΑ ΕΛΑΣΤΙΚΗ

ΟΜΑΔΑ Δ

<u>DL</u>	P	Q _D	Y	<u>ΣD</u>
A	6	60	2000	360
B	10	84	3000	840
C	4	210	3000	840
D	12	36	2000	432
E	12	70	3000	840

$$\epsilon_Y(1-Q) = \frac{\Delta Q}{Q} \frac{Y_L}{Q_1} = 17/9 \Leftrightarrow \frac{70-Q_A}{3000-2000} \cdot \frac{2000}{Q_A} = 17/9 \rightarrow$$

$$Q_A = 36$$

$$\epsilon_Q(1-Q) = \frac{\Delta Q}{Q} \frac{P_1}{Q_1} = -0,4 \rightarrow \frac{36-Q_A}{12-6} \cdot \frac{6}{Q_A} = -0,4 \rightarrow$$

$$Q_A = 60$$

$$\epsilon_X \approx \sum \Delta = P \cdot Q$$

$$\text{ΑΡΑ} \quad \sum \Delta_A = 6 \cdot 60 = 360$$

$$\sum \Delta_B = 10 \cdot 84 = 840$$

$$\sum \Delta_C = 4 \cdot 210 = 840$$

$$\sum \Delta_D = 12 \cdot 36 = 432$$

$$\sum \Delta_E = 12 \cdot 70 = 840$$

Δ2. $\epsilon_X \approx 2$ ΕΜΠΥΛΕΣ ΖΗΤΗΣΕΙΣ

ΓΙΑ $Y = 2000 \text{ €}$ ΕΙΝΑΙ ΓΡΑΜΜΙΚΗ (ΟΧΙ ΣΤΑΘΕΡΗ)

ΓΙΑ $Y = 3000 \text{ €}$ ΕΙΝΑΙ ΙΣΟΕΚΥΒΑΝΟΝΟΜΗ (ΣΤΑΘΕΡΗ)

Δ3 i) $Q_D = a + bP$ (1)

$$\textcircled{1} \xrightarrow{\textcircled{A}} 60 = a + 6b \quad \textcircled{2} \quad 24 = -6b \rightarrow \underline{b = -4}$$

$$\textcircled{1} \xrightarrow{\textcircled{B}} 36 = a + 12b$$

$$60 = a - 4 \cdot 6 \rightarrow \underline{a = 84}$$

ΑΡΑ $Q_D = 84 - 4P$

$$\text{ii)} - \Sigma D = 840 = A$$

$$\text{ΑΠΑ} \quad Q_D = \frac{A}{P} \quad \text{ΔΗΛΑΔΗ} \quad Q_D = \frac{840}{P}$$

Δ4. ΣΤΟ Δ-Ε ΑΥΞΑΝΟΝΤΑΙ Η ΖΗΤ. ΠΟΣΟΤΗΤΑ
ΜΕ P ΣΤΑΘΕΡΗ ΟΤΑΝ Y ↑

ΑΠΑ ΤΟ ΑΓΑΘΟ ΚΙΝΟΝΙΚΟ!

ΕΝΟΜΕΝΟΥC ΜΕ P ΣΤΑΘ Q_E > Q_D ΑΠΑ
ΟΠΩC ΚΗ P_D Q_D < P_E Q_E

Δ5. i) ΣΧΟΛΙΚΟ ΣΕΛ. 40

ii) ΣΧΟΛΙΚΟ ΣΕΛ. 46