

14/1/23

ΟΜΑΔΑ Α

A1	Σ	AC	γ
A2	Λ	A7	γ
A3	Λ		
A4	Λ		
A5	Λ		

ΟΜΑΔΑ Β

B1. ΣΧΟΛΙΚΟ ΣΕΛ. 179
 B2. ΣΧΟΛΙΚΟ ΣΕΛ. 65

ΟΜΑΔΑ Γ

	Q	AVC	MC	ATC	AFC	FC	VC	TC
A	80	50	50		200	16000	4000	20000
B	80+x	85	120			16000	13600	29600
Γ	120+x	100	160	180		16000	2000	36000

Γ2. (A) $VC_A = AVC_A \cdot Q_A = 50 \cdot 80 = 4000$
 $FC_A = AFC_A \cdot Q_A = 200 \cdot 80 = 16000$ } $TC_A = 20000$

(B) $AVC_B = \frac{VC_B}{Q_B} \rightarrow VC_B = 85 \cdot (80+x) = 6800 + 85x$ (1)

$MC_B = \frac{\Delta VC}{\Delta Q} = \frac{VC_B - 4000}{80+x-80} = 120 \xrightarrow{(1)} \frac{6800 + 85x - 4000}{x} = 120 \rightarrow$

$6800 + 85x - 4000 = 120x \rightarrow$

$2800 = 35x \rightarrow x = 80$

$$\textcircled{1} \quad VC_B = 6.800 + 85.80 = 13600$$

$$TC_B = 13600 + 16000 = 29600$$

$$\textcircled{2} \quad TC_C = ATC_C \cdot Q_C = 180 \cdot 200 = 36000$$

$$VC_C = 36000 - 16000 = 20000$$

$$MC_C = \frac{\Delta VC_C}{\Delta Q} = \frac{20000 - 13600}{200 - 160} = \frac{6400}{40} = 160$$

$$AVC_C = \frac{20000}{200} = 100$$

$$MC(80-160) = 120 \quad \text{APA} \quad MC(80-120) = 120 \rightarrow$$

$$\frac{\Delta TC}{\Delta Q} = 120 \rightarrow$$

$$\frac{TC_{120} - 20000}{120 - 80} = 120 \rightarrow$$

$$TC_{120} - 20000 = 4800 \quad \text{APA} \quad \underline{TC_{120} = 24800 \text{ €}}$$

2. $MPR \geq MC \text{ AND } P \geq AVC$

$$Q_{ST} = Q_{MC} = Q_{P=MC} \quad \text{ГДЕ} \quad P = MC$$

АТОМИЧ		АГОРАТА (Qs x 200)	
P	Qs	P	Qs x 200
50	80	50	16000
120	160	120	32000
160	200	160	40000

13. α. $Q_D = \frac{6.400.000}{P}$

ΙΣΟΣΤΕΛΗΤΗ ΥΠΗΡΒΟΛΙΚΗ ΣΤΑΤΗ Η ΣΤΟ ΕΙΝΑΙ ΣΤΑΘΕΡΗ
 ΣΤΕ ΚΤΟΣ ΤΙΜΗ ΚΑΙ ΙΣΤ ΜΓ Ρ·Q_D = Α

β. $Q_D = \frac{6400000}{P}$ (2)

(2) $\xrightarrow{P=50}$ $Q_D = \frac{6400000}{50} = 128000 \neq Q_S$

(2) $\xrightarrow{P=120}$ $Q_D = \frac{6400000}{120} = 53.333 \neq Q_S$

(2) $\xrightarrow{P=160}$ $Q_D = \frac{6400.000}{160} = 40000 = Q_S$

ΑΡΑ $P_0 = 160$

$Q_0 = 40000$

ΟΥΜΑ Δ

Q	TC	FC	VC	AVC	MC
0	40	40	0	-	-
10	70	40	30	3	3
20	80	40	40	2	1
30	110	40	70	2,33	3
40	150	40	110	2,75	4

ΓΙΑ $Q=0$ $FC = TC = 40$

ΕΠΙΣΤΕ ΕΓ ΚΤΟΣ ΣΤΑΜΜΗ ΙΣΧΥΓΙ $VC = TC - FC$

$$AVC = \frac{VC}{Q}$$

$$MC = \frac{\Delta VC}{\Delta Q}$$

MPGGE

$$MC \text{ AND } \pi \geq AVC$$

$$Q \text{ AND } P = MC \text{ AND } \pi =$$

	P	Qs
A	3	30
B	4	40

$$Q_s = \gamma + \delta P \quad (1)$$

$$\begin{cases} \textcircled{1} \textcircled{A} \rightarrow 30 = \gamma + 3\delta \\ \textcircled{1} \textcircled{B} \rightarrow 40 = \gamma + 4\delta \end{cases} \Rightarrow \underline{\delta = 10}$$

$$40 = \gamma + 40 \rightarrow \gamma = 0$$

$$\underline{APA} \quad \underline{Q_s = 10P}$$

$$\Delta 2. \quad \epsilon_{s10} = \frac{\Delta Q}{\Delta P} \frac{P_A + P_B}{Q_A + Q_B} = 10 \cdot \frac{3+4}{30+40} = 10 \cdot \frac{7}{70} = 1$$

$$\Delta 3. \quad \sum \pi = 0 \quad \epsilon_{\pi} = \epsilon_D = -1 \rightarrow$$

$$\frac{\Delta Q}{\Delta P} \frac{P}{Q} = -1 \rightarrow 8 \cdot \frac{1}{30} = -1 \rightarrow \underline{\underline{\beta = -30}}$$

$$\underline{APA} \quad Q_D = \alpha - 30P$$

$$150 = \alpha - 30 \cdot 5 \rightarrow \underline{\underline{\alpha = 300}}$$

$$\underline{ANA} \quad \underline{Q_D = 300 - 30P}$$

$$\Delta 4. \quad Q_D = Q_s \quad \underline{APA} \quad 300 - 30P_0 = 10P_0$$
$$300 = 40P_0 \rightarrow$$
$$P_0 = 7.5 \in$$

$$Q_0 = 10 \cdot 7,5 = 75 \text{ k.u.}$$

$$\Delta S. \quad \epsilon_{x \pm} \quad \epsilon_y = 2 \rightarrow \frac{\frac{\Delta Q}{Q} \cdot 100\%}{\frac{\Delta Y}{Y} \cdot 100\%} = 2$$

$$\text{ANA} \quad \frac{\Delta Q}{Q} \cdot 100\% = 2 \cdot 10\% = 20\%$$

$$\text{ANA} \quad Q_0' = Q_0 + 20\% \cdot Q_0 \rightarrow \\ Q_0' = 1,2 Q_0 = 1,2 (300 - 30P)$$

$$\underline{Q_0' = 360 - 36P}$$

$$Q_S' = Q_S + 20\% \cdot Q_S \rightarrow Q_S' = 1,2 Q_S \\ Q_S' = 1,2 (10P) \\ \underline{Q_S' = 12P}$$

$$Q_D' = Q_S' \rightarrow 360 - 36P_0' = 12P_0' \\ 360 = 48P_0' \rightarrow \\ P_0' = 7,5 \text{ €} \\ Q_0' = 12 \cdot 7,5 = 90 \text{ k.u.}$$