Θέμα 1

1.1/

α. Λάθος
β. Σωστό
γ. Σωστό
δ. Λάθος
ε. Λάθος

1.2/ γ. 2.4

1.3/ α. Μειώνεται 10 εκ.

Θέμα Β

Βιβλίο σελ. 164

Θέμα Γ

Εφ. Δυν. = 10.000 : 40 Χ ή 20 Υ

$Q_X = 40 - 1_X$ και $Q_Y = 20 - 1_Y$

Γ1/

Συνδ.	Χ	Υ	kG_Y
Α	0	200.000	2
Β	200.000	100.000	2
Γ	400.000	0	

$Q_{YA} = 20 \cdot 10.000 = 200.000$

$Q_{XB} = 40 \cdot 5.000 = 200.000$

$Q_{YB} = 20 \cdot 5.000 = 100.000$

$Q_{XΓ} = 40 \cdot 10.000 = 400.000$

$kG_Y^{A-B} = \frac{200.000 - 0}{200.000 - 100.000}$

$kG_Y^{B-Γ} = \frac{400.000 - 200.000}{100.000 - 0}$

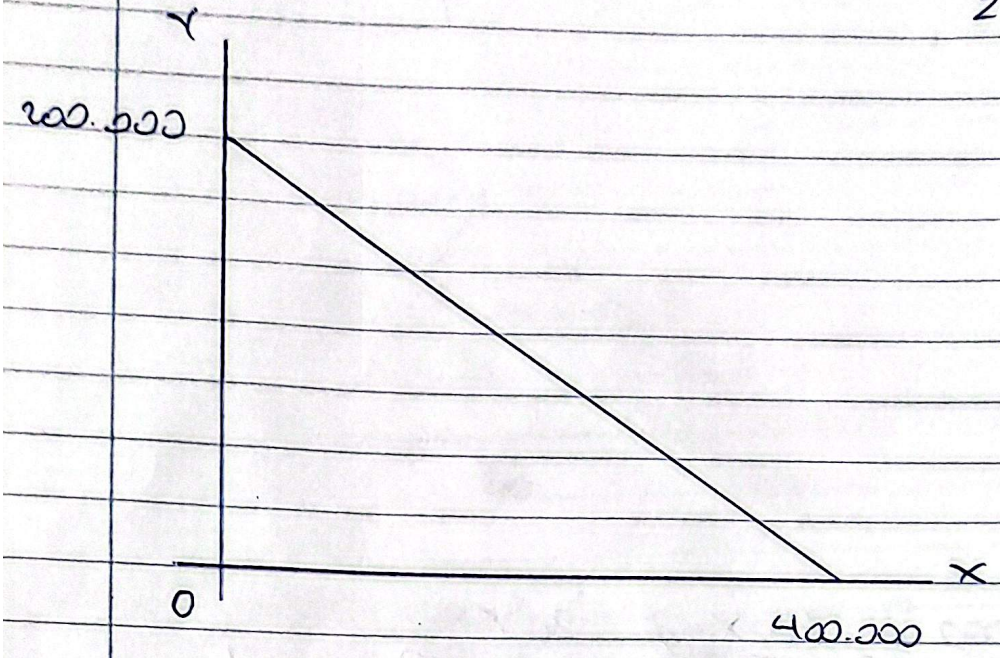
[2] $Y = aX + \beta$.

$A: 200.000 = a \cdot 0 + \beta$

$B: 100.000 = a \cdot 200.000 + \beta$

$\left.\begin{array}{l} \rightarrow \beta = 200.000 \\ a = -\frac{1}{2} \end{array}\right\}$

$\rightarrow Y = 200.000 - \frac{1}{2} X.$



[3] $X = 60.000$

$Y = 200.000 - \frac{1}{2} \cdot 60.000 = 170.000$

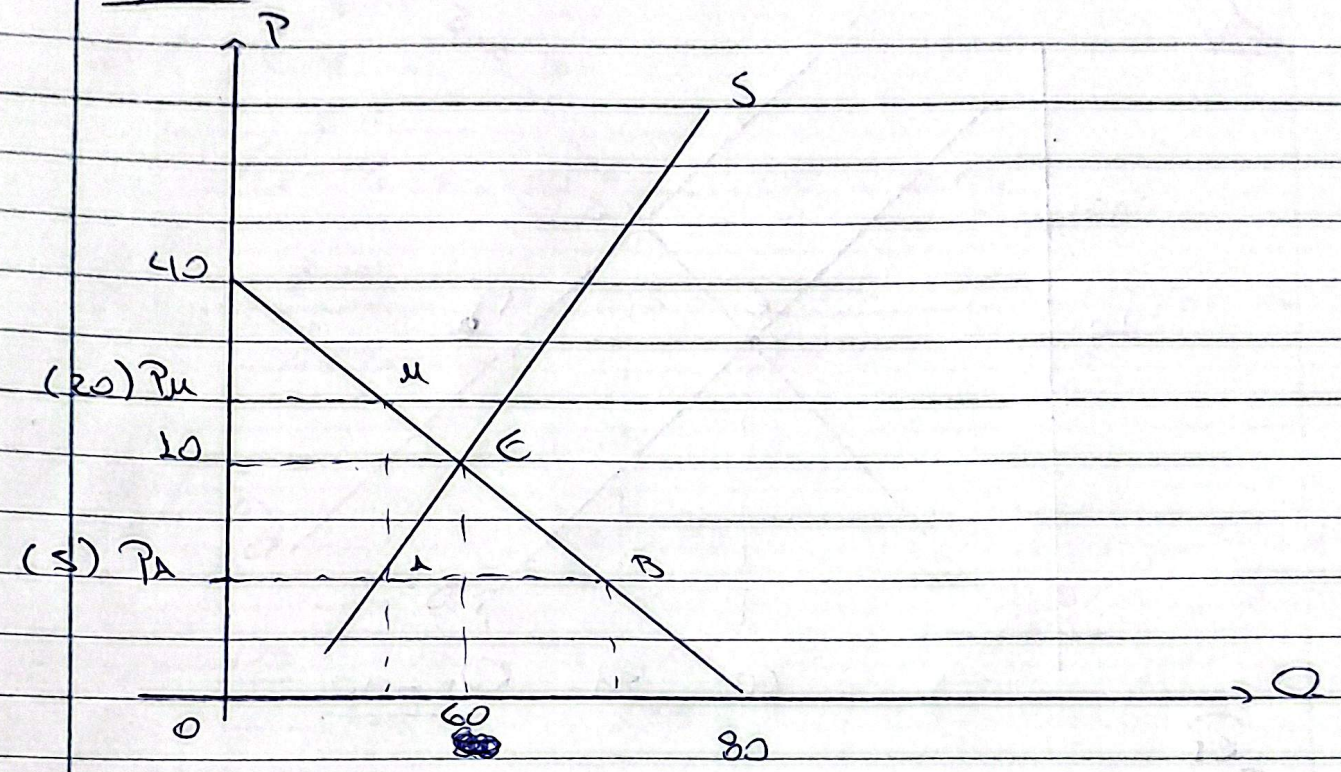
Q_x	Q_y	P_x	P_y
60.000	170.000	3	5

$\Delta E \Pi_{T.T.} = 60.000 \cdot 3 + 170.000 \cdot 5 = 1.030.000$

[4] $\left.\begin{array}{l} 40.000 = 40 \cdot L_x \rightarrow L_x = 1.000 \\ 140.000 = 20 \cdot L_y \rightarrow L_y = 7.000 \end{array}\right\}$ $L = 8.000$ (απασχολούμενοι)

$\% \text{ Ανεργία} = \frac{2.000}{10.000} \cdot 100 = 20\%$

Άσκηση 5.



5.1/ $Q_D = \alpha + \beta \cdot P$

$80 = \alpha + \beta \cdot 0 \Rightarrow \alpha = 80$

$0 = 80 + 40\beta \Rightarrow \beta = -2$

$\Rightarrow \underline{Q_D = 80 - 2P}$

σημείο E: $Q_E = 80 - 2 \cdot 10 = 60$

$\epsilon_S = \delta \cdot \frac{P_E}{Q_E} \Leftrightarrow \frac{2}{3} = \delta \cdot \frac{10}{60} \Rightarrow \delta = 4$

$Q_S = \gamma + \delta \cdot P \Leftrightarrow 60 = \gamma + 4 \cdot 10 \Rightarrow \gamma = 20$

$\underline{Q_S = 20 + 4P}$

5.2/ κατώτατο = $P_M - P_A = 15$

σημείο A: $Q_A = 20 + 4P_A$

-11- M: $Q_A = 80 - 2P_M$

$\Rightarrow 20 + 4P_A = 80 - 2P_M$

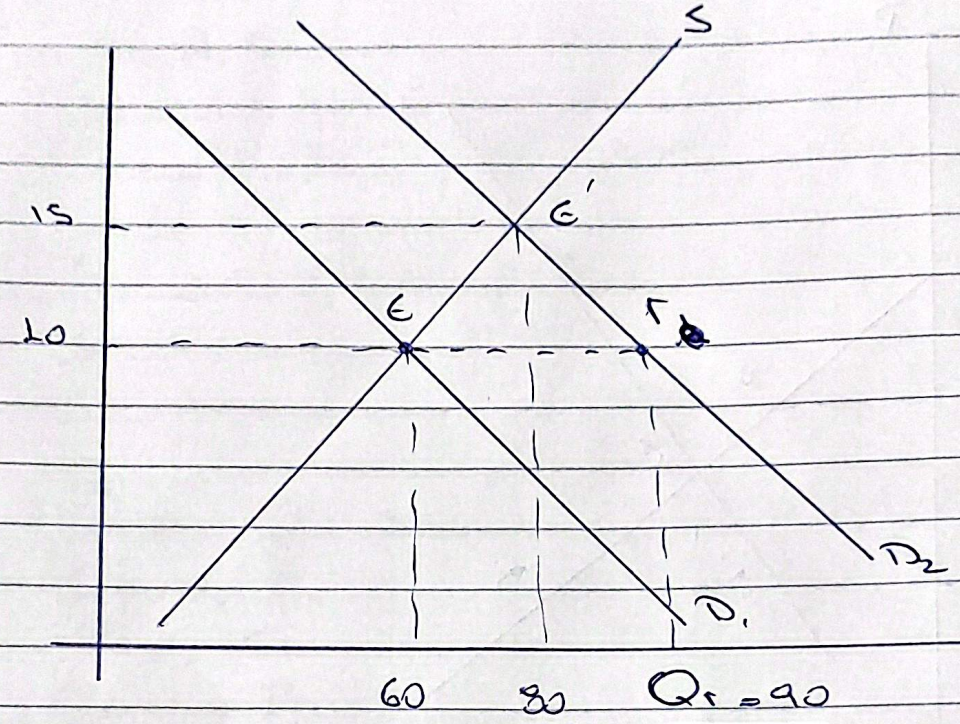
$P_M + 2P_A = 30$

$P_M - P_A = 15$

$\Rightarrow \underline{P_A = 5}$

$\underline{P_M = 20}$

13



$$\epsilon_D = -\frac{S}{17} \rightarrow -\frac{S}{17} = \frac{Qr - 80}{10 - 15} \cdot \frac{10+15}{Qr+80}$$

$$\Leftrightarrow \frac{-S}{17} = \frac{Qr-80}{-5} \cdot \frac{25}{Qr+80} \rightarrow$$

$$\frac{-S}{17} = \frac{5Qr - 400}{-Qr - 80} \quad \Leftrightarrow 5Qr + 400 = 85Qr - 6.800$$

$$\rightarrow Qr = 90$$

$$Q_{D2} = \alpha + \beta \cdot P$$

$$\left.\begin{array}{l} E': \ 80 = \alpha + 15\beta \\ \Gamma: \ 90 = \alpha + 10\beta \end{array}\right\} \quad \begin{array}{l} \beta = -2 \\ \alpha = 110 \end{array}$$

$$Q_D = 110 - 2P$$

14/ $E_{\epsilon \to r}_{x} = 2,5$

$\Delta Q_D\%_{\epsilon \to r} = \frac{90-60}{60} \cdot 100 = 50\%$

$E_{\epsilon \to r}_{x} = \frac{\Delta Q\%}{\Delta Y\%}$ (=) $2,5 = \frac{50\%}{\Delta Y\%}$ (=) $\Delta Y\% = 20\%$

15/ $\underline{D_1}$: $P=0$, $Q_D=80$ $\quad$ $\underline{S}$: $P=0$, $Q_S=20$

$Q_D=0$, $P=40$ $\quad$ $Q_S=0$, $P=-5$

$\underline{D_2}$: $P=0$, $Q_D=110$

$Q_D=0$, $P=55$