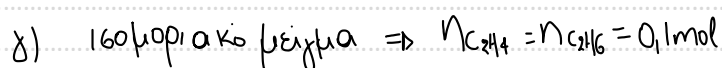
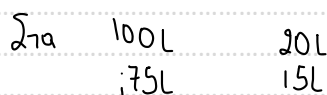
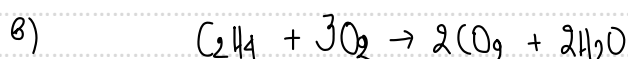
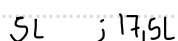
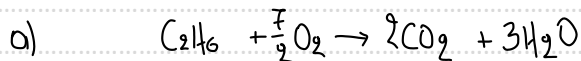
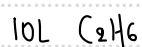
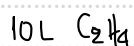
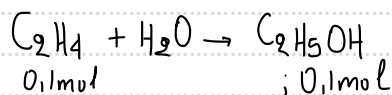


Φ.Ε. 7.7



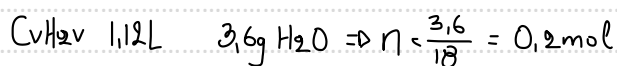
από τις δύο ουσίες μόνο το αλκένιο C_2H_4 αντιδρά με το H_2O :



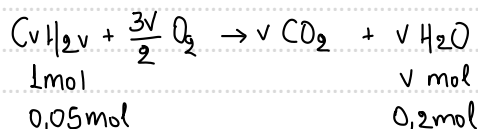
$m_{C_2H_5OH} = 0,1 \cdot 46 = 4,6 \text{ g}$

($M_{r_{C_2H_5OH}} = 46$)

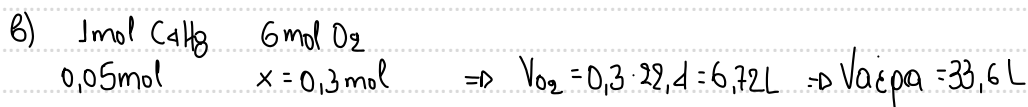
Φ.Ε. 7.8



$n_A = \frac{1,12}{22,4} = 0,05 \text{ mol}$



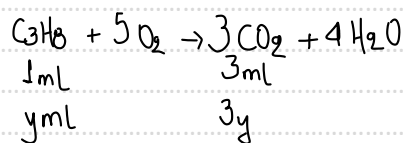
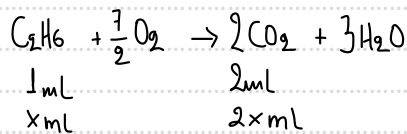
$\boxed{n=4} \Rightarrow C_4H_8$



Φ.Ε.7.9.

$$V_{\mu} = 150 \text{ ml} \Rightarrow V_{C_2H_6} + V_{C_3H_8} = 150 \text{ ml (1)} \quad 350 \text{ ml } CO_2$$

α)



άρα: $2x + 3y = 350 \text{ ml (2)}$

$$(1), (2): \quad x + y = 150 \quad | \cdot (-2) \Rightarrow -2x - 2y = -300$$

$$2x + 3y = 350 \quad | \quad \underline{2x + 3y = 350}$$

$$y = 50 \text{ ml και } x = 100 \text{ ml}$$

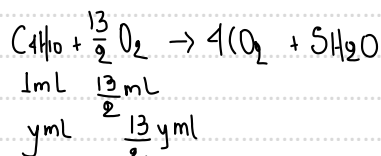
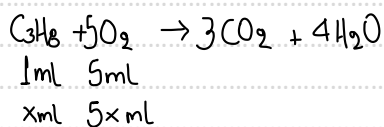
β)

1 ml C_2H_6	$\frac{7}{2}$ ml O_2	}	$\varphi + w = 600 \text{ ml } O_2$
100 ml	$\varphi = 350 \text{ ml}$		
1 ml C_3H_8	5 ml O_2		
50 ml	$w = 250 \text{ ml}$		

Φ.Ε.7.10

Έστω x ml C_3H_8 και y ml C_4H_{10} 1,4 L αέρια

Στα 100 ml αέρα $20 \text{ ml } O_2$
1400 ml $x = 280 \text{ ml } O_2$



$$\begin{array}{l} x + y = 50 \\ 5x + \frac{13}{2}y = 280 \end{array} \Rightarrow \begin{array}{l} x + y = 50 \\ 10x + 13y = 560 \end{array} \quad | \cdot (-10) \Rightarrow \begin{array}{l} -10x - 10y = -500 \\ 10x + 13y = 560 \\ \hline 3y = 60 \Rightarrow y = 20 \text{ ml} \end{array}$$

Άρα: $x = 30 \text{ ml και } y = 20 \text{ ml}$

6) Καύση: $1400 - 280 = 1120 \text{ mL } \text{N}_2$
 $90 + 80 = 170 \text{ mL } \text{CO}_2$
 $120 + 100 = 220 \text{ mL } \text{H}_2\text{O}$