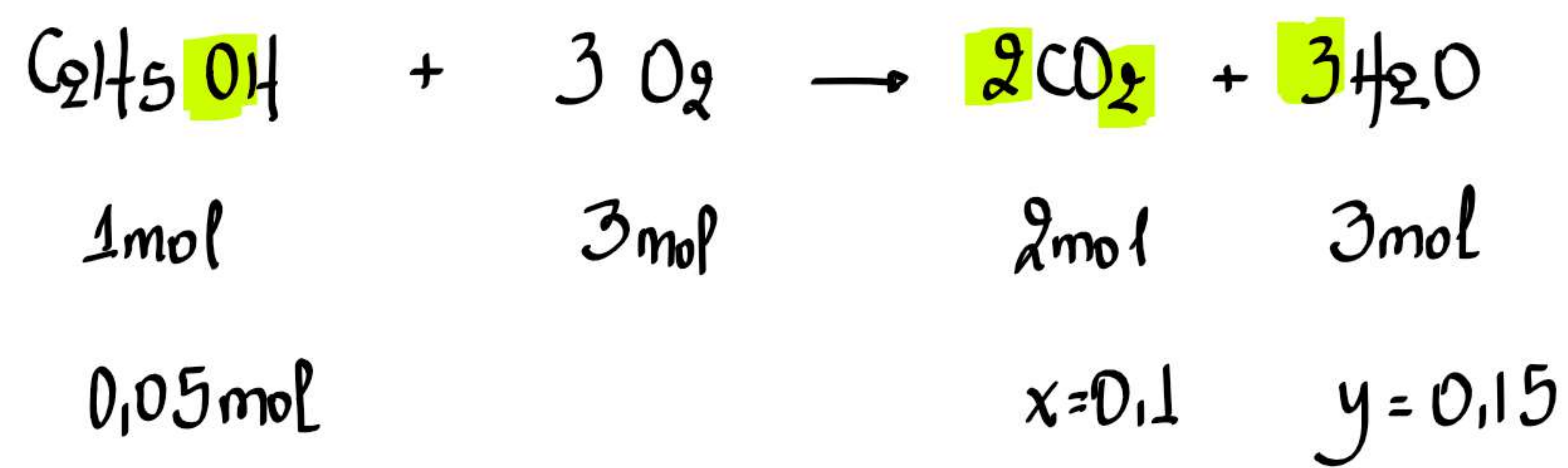
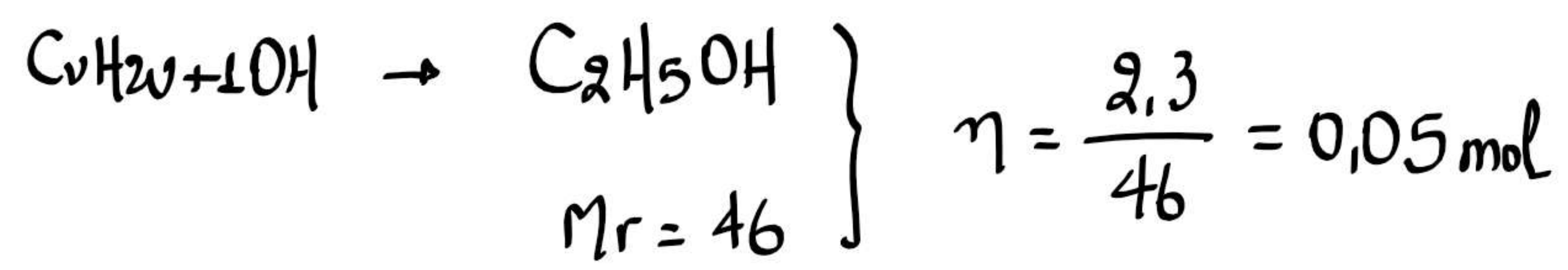


Άσκηση 6.4.



$$\text{CO}_2: \quad m = \eta \cdot M_r = 0,1 \cdot 44 = 4,4 \text{ g}$$

$$M_r = 44$$

$$\text{H}_2\text{O}: \quad m = \eta \cdot M_r = 0,15 \cdot 18 = 2,7 \text{ g}$$

$$M_r = 18$$



$$1 \text{ mol} \quad 7/2 \text{ mol}$$

$$0,2 \text{ mol} \quad ; 0,7 \text{ mol}$$

$$V_{\text{O}_2} = 0,7 \cdot 22,4 = 15,68 \text{ L O}_2$$

Αέρας:

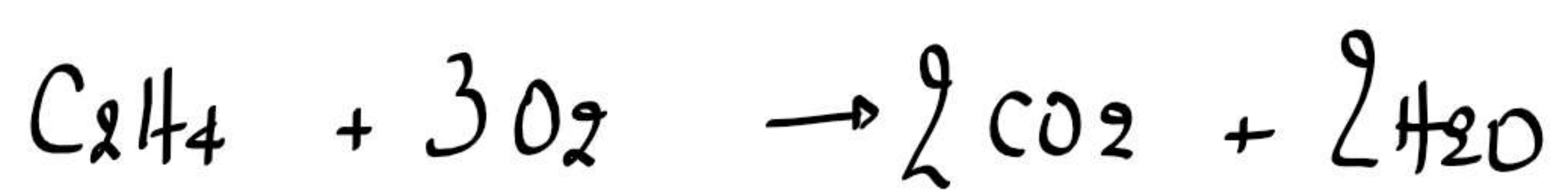
$$100 \text{ L}$$

$$20 \text{ L}$$

$$; 78,4 \text{ L}$$

$$15,68 \text{ L}$$

6.5.



$$1 \text{ mol} \quad 3 \text{ mol} \quad 2 \text{ mol}$$

$$; x = 0,2 \text{ mol} \quad y = 0,6 \text{ mol} \quad 0,4 \text{ mol}$$

$$\hookrightarrow m = \eta \cdot M_r = 0,2 \cdot 28 = 5,6 \text{ g}$$

$$\hookrightarrow V_{\text{O}_2} = 0,6 \cdot 22,4 = 13,44 \text{ L}$$

$$17,6 \text{ g CO}_2 \rightarrow \eta = 0,4 \text{ mol}$$