

Самостоятельная работа

по теме

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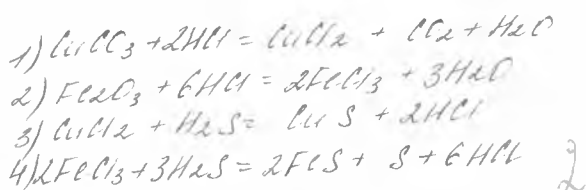
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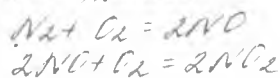
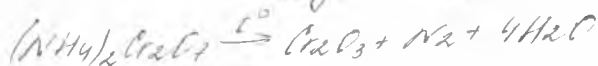


### Задача 1

X - 11 - 23



### Задача 2



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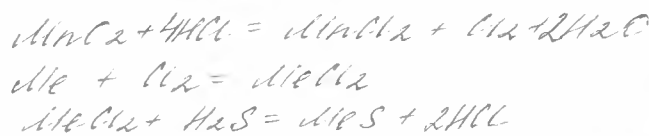
### Задача 4

Дано:

$$\begin{aligned} w(\text{HCl}) &= 35,2\% \\ \rho(\text{HCl}) &= 1,18 \text{ г/см}^3 \\ m(\text{Me}) &= 24 \text{ г} \\ m(\text{MeS}) &= 36 \text{ г} \end{aligned}$$

$$\begin{aligned} m(\text{MeCl}) &= ? \\ V(\text{HCl}) &= ? \\ M(\text{Me}) &= ? \end{aligned}$$

Решение:



$$1) \text{Пусть } x = n(\text{Me}), \text{ тогда } n(\text{Me}) = \frac{24}{x},$$

$$n(\text{MeS}) = \frac{36}{x+32}$$

$$\frac{24}{x} = \frac{36}{x+32}$$

$$12x = 768$$

$$x = 64 \Rightarrow \text{Me соответствует Cu}$$

$$2) n(\text{Cu}) = \frac{m}{M} = \frac{24}{64} = 0,375 \text{ моль}$$

$$3) n(\text{Cl}_2) = n(\text{Cu}) = 0,375 \text{ моль}$$

$$4) n(\text{HCl}) = 4n(\text{Cl}_2) = 1,5 \text{ моль}$$

$$5) m(\text{HCl}) = n \cdot M = 1,5 \cdot 36,5 = 54,75 \text{ г}$$

$$6) m_{\text{р}}(\text{HCl}) = \frac{m}{w} = \frac{54,75}{0,352} = 155,5 \text{ г}$$

$$7) V(\text{HCl}) = \frac{m_{\text{р}}}{\rho} = \frac{155,5}{1,18} = 131,8 \text{ см}^3$$

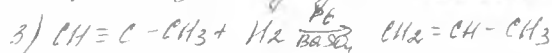
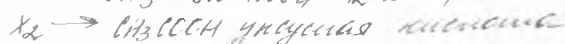
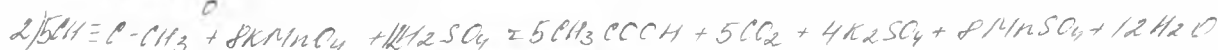
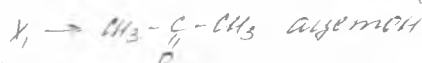
$$8) n(\text{MeCl}_2) = n(\text{Cl}_2) = 0,375 \text{ моль}$$

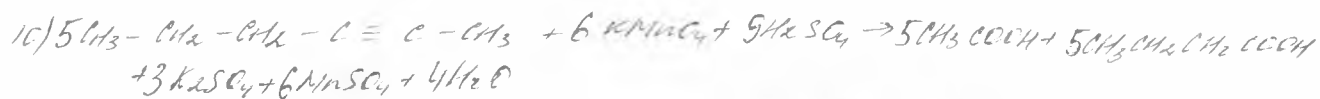
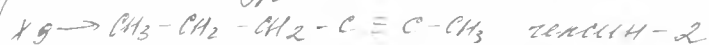
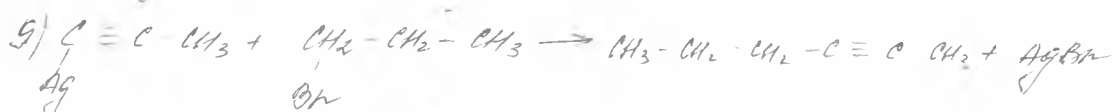
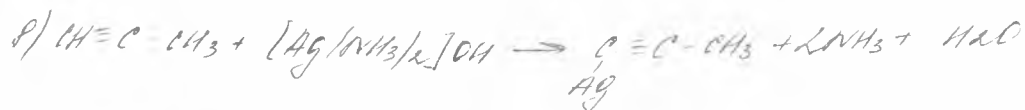
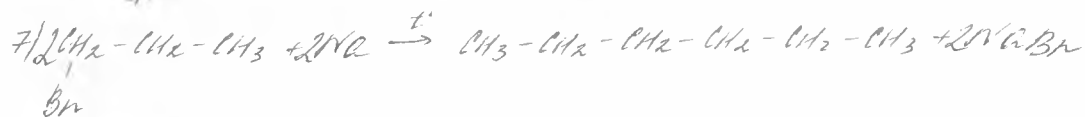
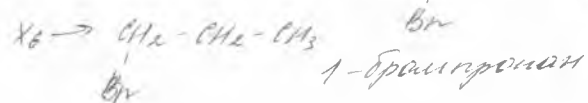
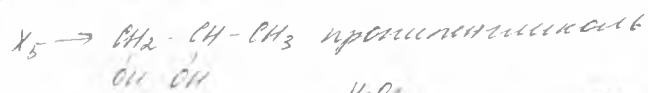
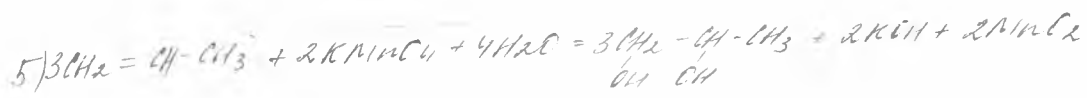
$$9) m(\text{MeCl}_2) = n \cdot M = 0,375 \cdot 87 = 32,625 \text{ г}$$

$$\text{ответ: } 32,625 \text{ г}; 131,8 \text{ см}^3; \text{Cu}$$

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### Задача 5





Всего 35

Проверил:

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