

X-43

Самостоятельная работа
по химии
ученица 10 Б класса
МБОУ лицея 5104
Добовой Лины Алексеевны

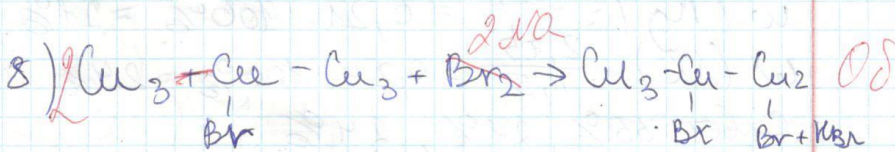
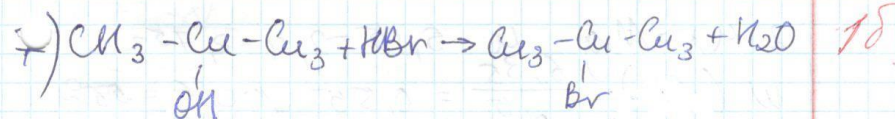
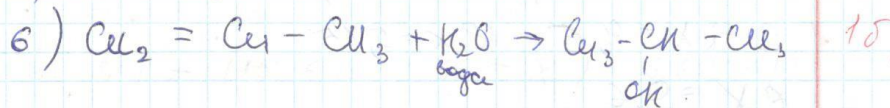
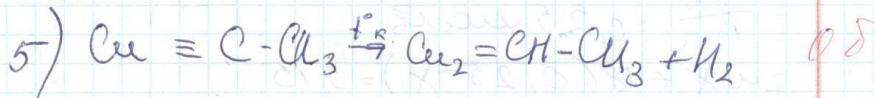
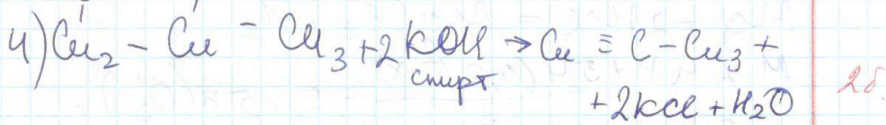
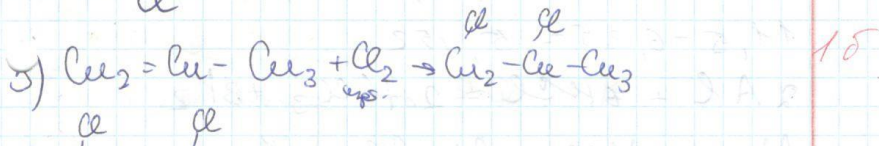
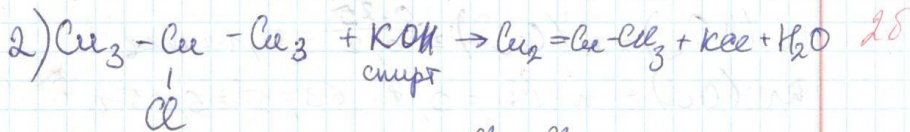
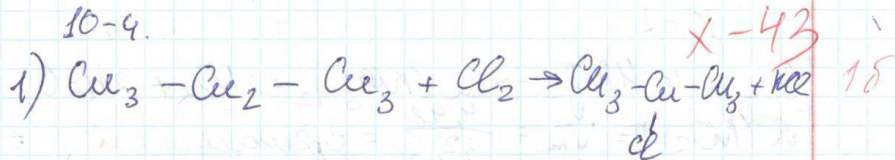
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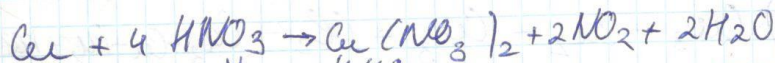
24 сентября 2018г.

10-4.



80

10-2.



$$n(\text{NO}_2) = \frac{V}{V_m} = \frac{4,48}{22,4} = 0,2 \text{ моль} \quad 25$$

$$n(\text{NO}_2) = n(\text{Cu}) = \frac{0,25}{0,2} = 0,1 \text{ моль}$$

$$m(\text{Cu}) = n \cdot M = 0,1 \cdot 63,5 = 6,35 \text{ г.} \quad 64$$

$$11,5 - 6,35 = 5,15$$



$$\frac{24x + 54(0,25-x)}{3} = 5,15 \quad n(\text{O}_2) =$$

$$= \frac{5,6}{22,4} = 0,25 \text{ моль} \quad 18$$

$$24x + 18(0,25-x) = 5,15 \quad 18$$

$$24x + 4,5 - 18x = 5,15$$

$$6x = 0,6$$

$$2,4x = \text{Mg} \quad 4 \quad 5,15 - 2,4 = 2,75$$

$$w(\text{Cu}) = \frac{6,35}{11,5} = 0,55 \cdot 100\% = 55\%$$

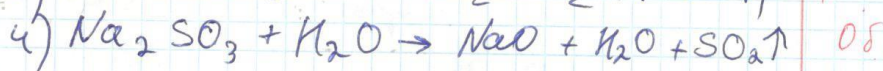
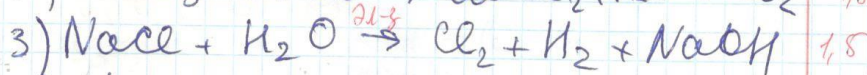
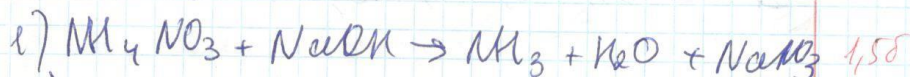
$$w(\text{Mg}) = \frac{2,4}{11,5} = 0,21 \cdot 100\% = 21\%$$

$$w(\text{Al}) = \frac{2,75}{11,5} = 0,24 \cdot 100\% = 24\% \quad 20$$

Order: 55%, 21%, 24%

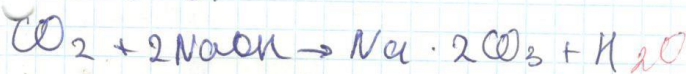
95

10-1.

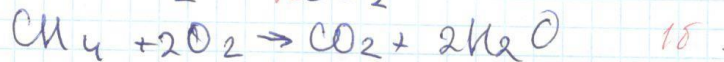
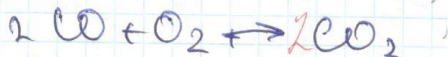


4,58

10-3.



$15,68 - 8,96 = 6,72 \text{ л}$ 1,5



x - кол. метана

в обеих реак. 6,72 л O_2

$V(CO) = (15,68 - 8,96 - x) = (6,72 - x)$

$\frac{(6,72 - x)}{2}$ 3,5

$2x + \frac{(6,72 - x)}{2} = 6,72$ 1,5

x - 2,24 л - объем метана

$V(CO) = 6,72 - 2,24 = 4,48 \text{ л}$ 1,5

$\varphi(CO_2) = \frac{8,96}{15,68} = 0,571 \cdot 100\% = 57,1\%$ 1,5

$\varphi(CH_4) = \frac{2,24}{15,68} = 0,143 \cdot 100\% = 14,3\%$ 1,5

$\varphi(CO) = \frac{4,48}{15,68} = 0,286 \cdot 100\% = 28,6\%$ 1,5/10%

ber: 57, 1%, 19,3%, 28,6%

now: 31,5%