

1	2	3	4	5	6	7	8	9	10
6	6	8			12	12	10		

54/100

1.1 $n(\text{MgZn}_2(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}) = x$ $n(\text{Al}_2(\text{OH})_3\text{PO}_4) = y$ $12x + 7y = 1,27$
 $n(\text{O}) = 12x$ $n(\text{O}) = 7y$ $2x + y = 0,21$
 $n(\text{P}) = 2x$ $n(\text{P}) = y$
 $x = 0,1$
 $m(\text{MgZn}_2(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}) = 416 \cdot 0,1 = 41,6$
 $m(\text{Al}_2(\text{OH})_3\text{PO}_4) = 2$ } 43,6

$\Sigma m = 100$

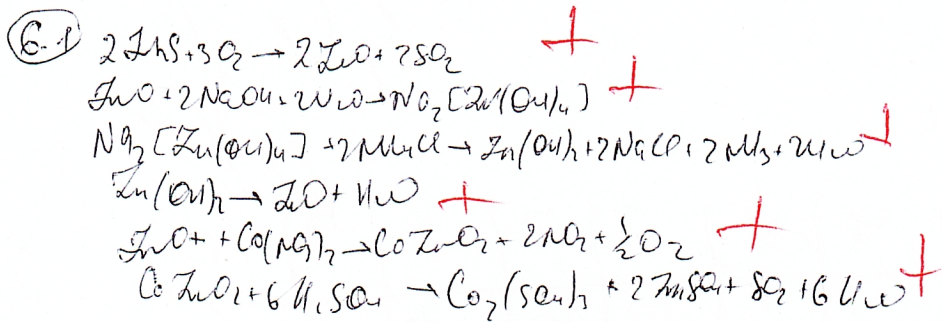
1.2 $n(\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}) = x$ $n(\text{C}_3\text{H}_8\text{O}_3) = y$ $382x + 92y = 100$
 $20x + 8y = 8$
 $m(\text{C}_3\text{H}_8\text{O}_3) = nM = 79,9$ $w = 79,9 \rightarrow 80,4$ } +65

4.1 $1,60 + \text{HNO}_3 \rightarrow \text{Mg(NO}_3)_2 + \text{CO}_2 + \text{KNO}_3 + \text{H}_2\text{O}$
 $n(\text{C}) = n(\text{CO}_2) = pV/RT = 0,01$
 $n(\text{N}) = n(\text{Mg(NO}_3)_2) = m/M = 0,005$
 $n(\text{NO}_2) = n(\text{HNO}_3) = 0,03$
 $n(\text{HNO}_3) = n(\text{Mg(NO}_3)_2) = 0,005$
 $\Sigma n = 0,035$ $0,035 \cdot y = 0,09 - 0,005$
 $n(\text{H}) = 0,015$ $m(\text{O}) = m_{\text{O}} - m(\text{C}) - m(\text{H}) - m(\text{N})$
 $n(\text{O}) = 0,004$ $\Sigma n_{\text{O}} = 6 \cdot 10 + 13 \cdot 1 + 5 \cdot 7 + 4 \cdot 8 = 140$

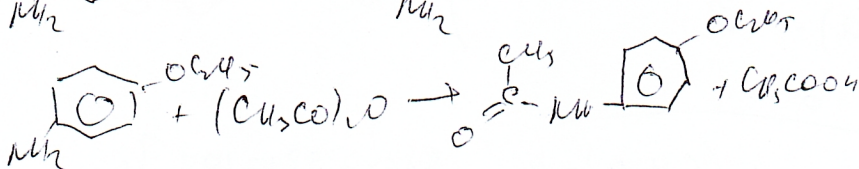
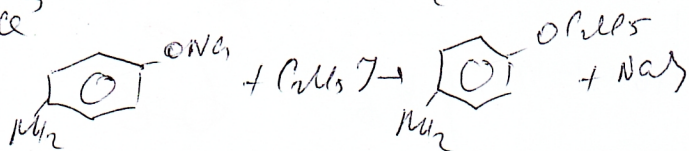
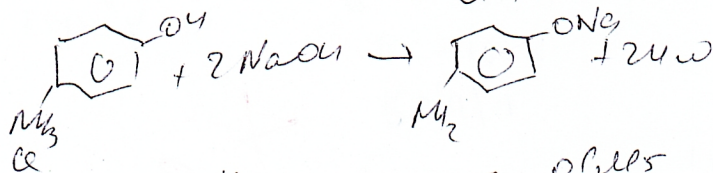
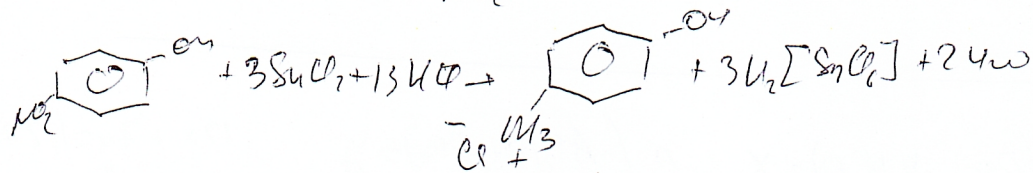
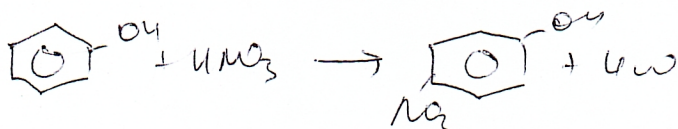
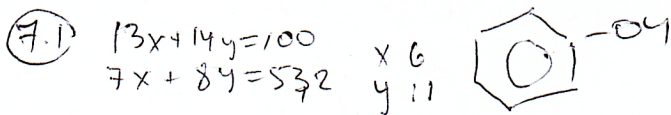


СЕЧЕНОВСКИЙ
УНИВЕРСИТЕТ

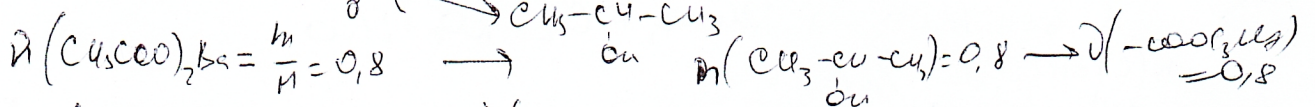
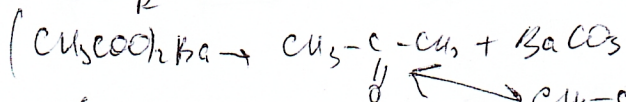
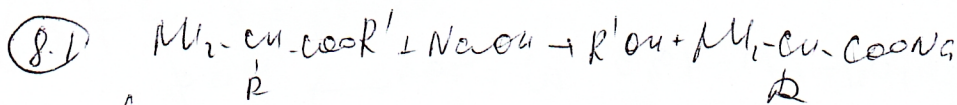
1X005



125



+125



$n(\text{HBr}) = \frac{m}{M} = 1,2$

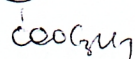
$n(\text{COOCH}_3) : n(\text{HBr})$

$0,8 : 1,2$

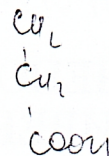
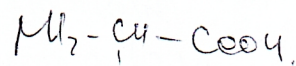
$= -\text{COOH} ?$

$\text{M}_2 - \text{CH} - \text{COOCH}_3 \quad M = \frac{92,4}{0,4} = 231$

?



$M(?) = 28$



10



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11 X 005