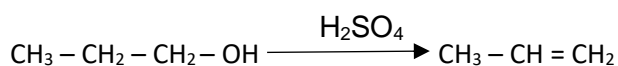
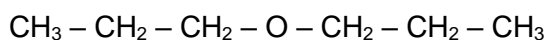
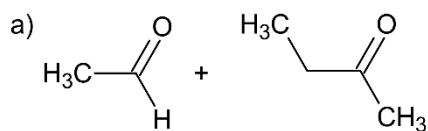


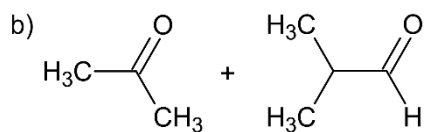
Zadanie 12.1

I	II
$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{C}-\text{OH} \\ \\ \text{CH}_3 \end{array}$	$\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C}-\text{CH}-\text{CH}_2-\text{OH} \\ \text{lub } \text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH} \end{array}$

Zadanie 12.2**Zadanie 12.3****Zadanie 12.4****Zadanie 13.1**

etanal

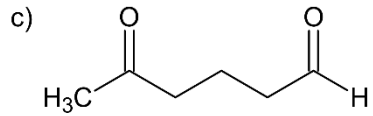
butanon



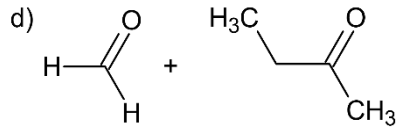
propanon

2-metylopropanal

Zadania 12-15, marzec 2025. Odpowiedzi

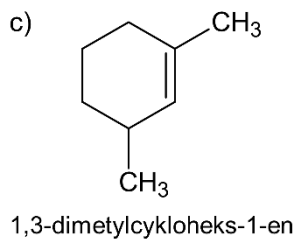
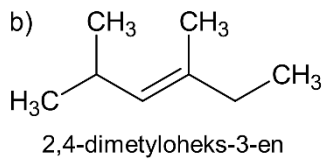
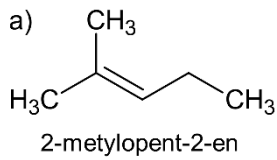


5-oksoheksanal



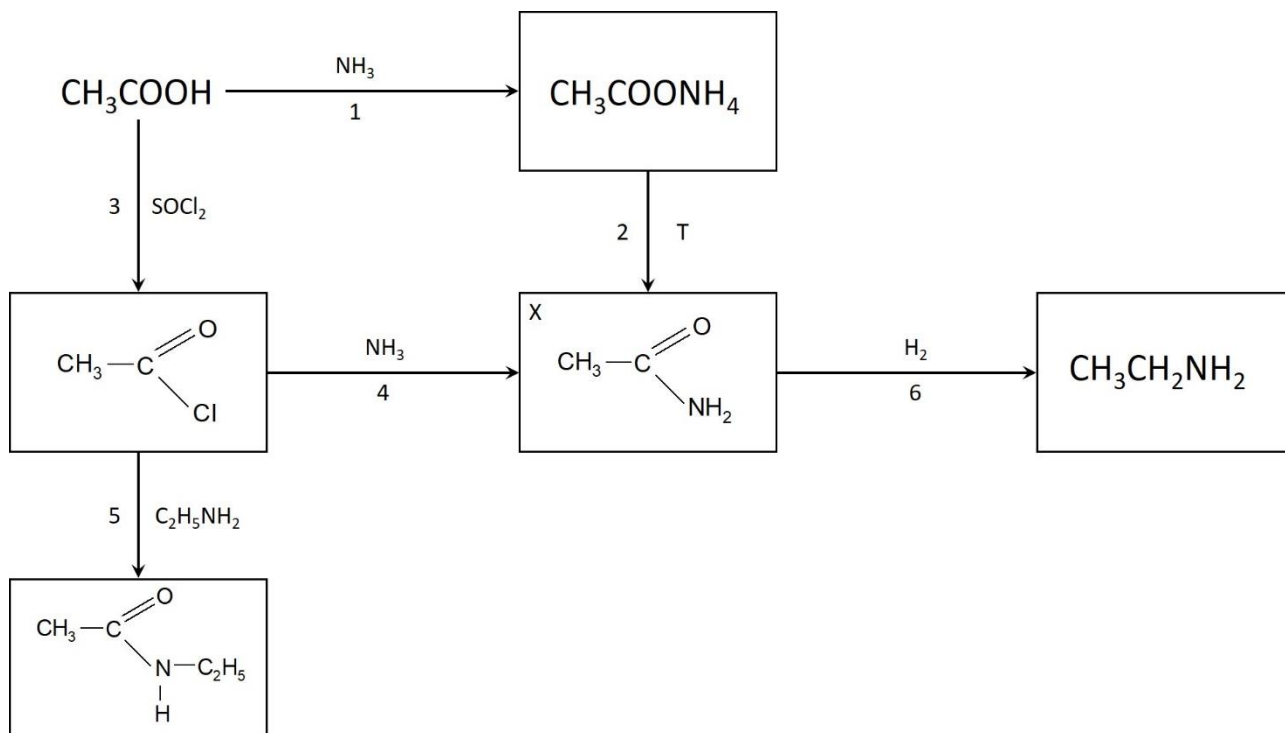
metanal

butanon

Zadanie 13.2

Zadanie 14

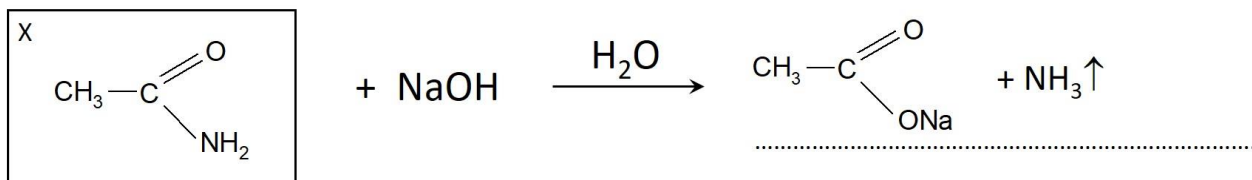
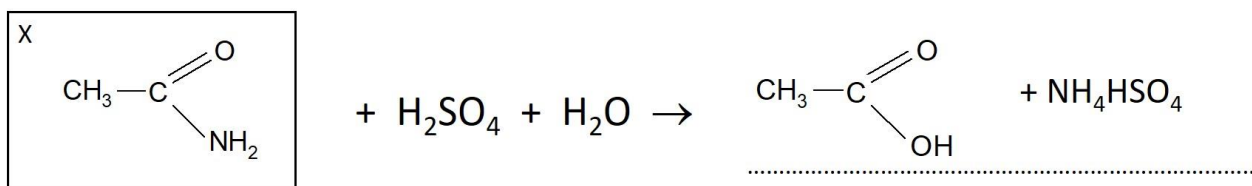
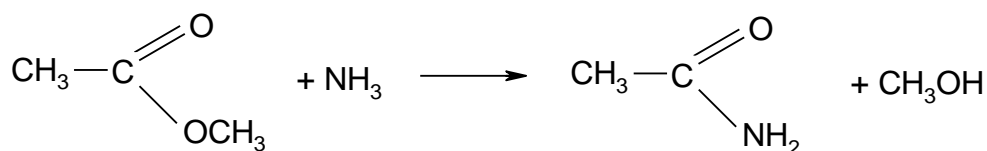
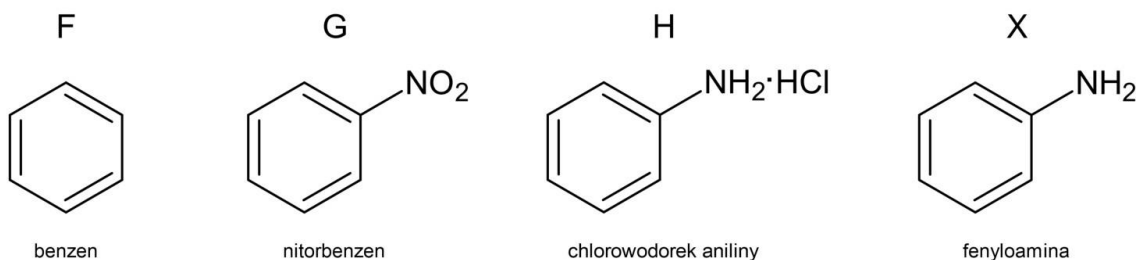
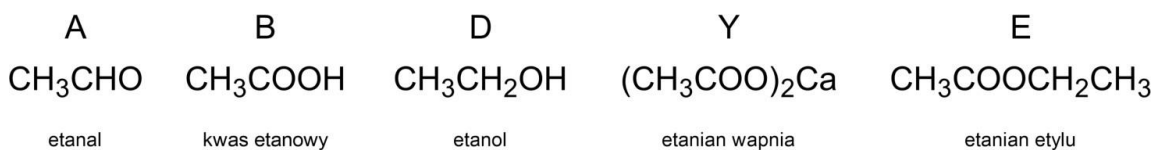
Schemat do zadania:

**Zadanie 14.2**

a)

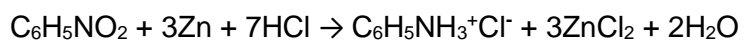
nazwa związku	grupa związków	grupa funkcyjna	
		nazwa	wzór
<i>acetamid</i> (<i>etanoamid</i>)	<i>amidy</i>	<i>grupa amidowa</i>	$\begin{array}{c} \text{O} \\ \parallel \\ \text{—C—} \\ \backslash \\ \text{NH}_2 \end{array}$

b)

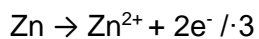
**Zadanie 14.3****2,2 dm³****Zadanie 15.1**

Zadanie 15.2

Równanie sumaryczne:



Proces utleniania:



Proces redukcji:

