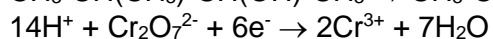
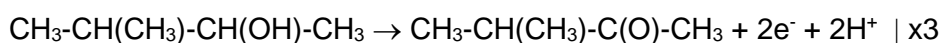
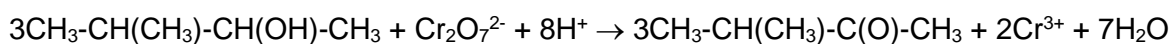
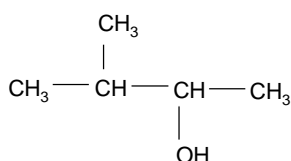


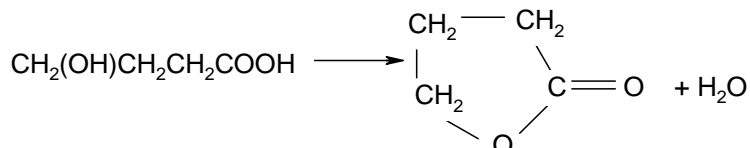
**Zadanie 9**

a. (aldehyd / keton)  
(żółtego / pomarańczowego)

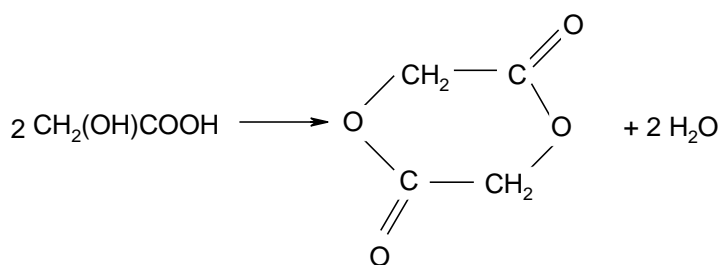
b.

**Zadanie 10**

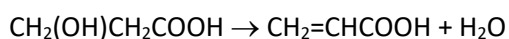
A.



B.



C.

**Zadanie 11**

A-2

B-3

C-1

**Zadanie 12**kwas propanowy  $\text{CH}_3\text{-CH}_2\text{-COOH}$ etanol  $\text{CH}_3\text{-CH}_2\text{-OH}$ 

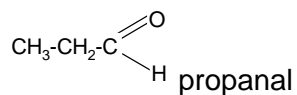
propanian etylu

reakcja estryfikacji

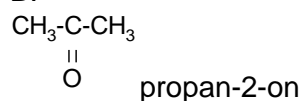
**Zadanie 13.1**a.  $\text{C}_3\text{H}_6\text{O}$ 

b.

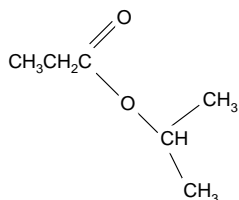
A:



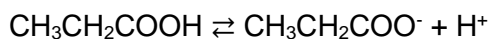
B:

**Zadanie 13.2**1:  $\text{CH}_3\text{CH}_2\text{COOH}$ 2:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ 3:  $\text{CH}_3\text{CH}=\text{CH}_2$ 4:  $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ 

5:

**Zadanie 13.3**

A – 3, B – 1, C – 4

**Zadanie 13.4**

pH = 2,7

**Zadanie 14**

A-4

B-1

C-3