

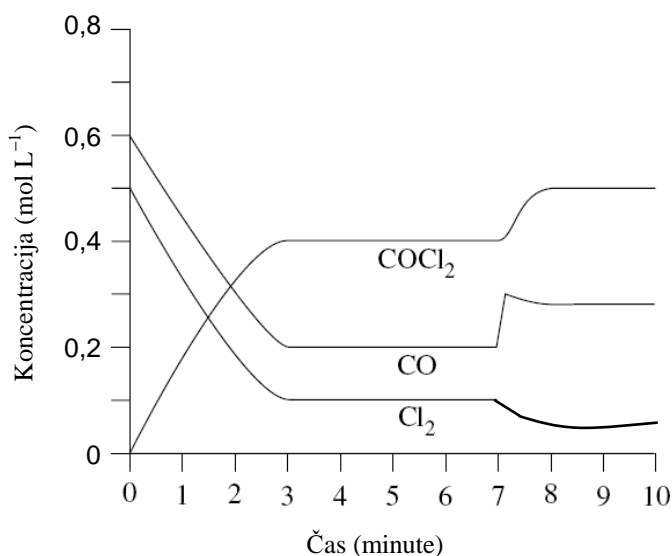
**Rešitve**

- 1.1  $2 \text{Br}^-(\text{aq}) + \text{F}_2(\text{g}) \rightarrow \text{Br}_2(\text{aq}) + 2 \text{F}^-(\text{aq})$  1,5 T  
 1.2 Nastale so molekule broma, ki obarvajo vodno raztopino broma oranžnorjavo. 0,5 T  
 1.3 Ne bo prišlo do spremembe barve, ker reakcija ne poteče. 0,5 T  
**Skupaj: 2,5 T**

2. a shema 1 0,5 T  
 b shema 2 0,5 T  
 c shema 3 0,5 T  
**Skupaj: 1,5 T**

- 3.1  $2 \text{KClO}_3 \rightarrow 2 \text{KCl} + 3 \text{O}_2$  1 T  
 3.2  $2 \text{H}_2\text{S} + 3 \text{O}_2 \rightarrow 2 \text{SO}_2 + 2 \text{H}_2\text{O}$  1 T  
 3.3  $\text{Ca}_3(\text{PO}_4)_2 + 3 \text{H}_2\text{SO}_4 \rightarrow 2 \text{H}_3\text{PO}_4 + 3 \text{CaSO}_4$  1 T  
 3.4  $4 \text{NO}_2 + 2 \text{H}_2\text{O} + \text{O}_2 \rightarrow 4 \text{HNO}_3$  1 T  
**Skupaj: 4,0 T**

- 4.1  $K = 20$  1,0 T  
 4.2 CO 0,5 T  
 4.3 narisana padajoča krivulja 0,5 T

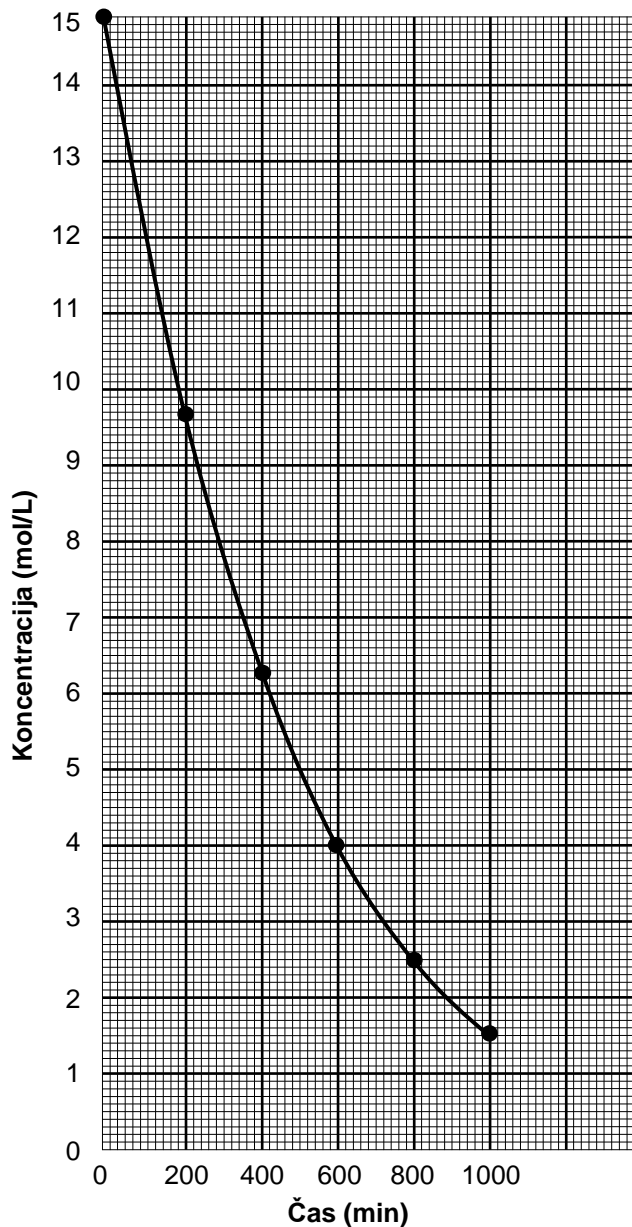
**Skupaj: 2,0 T**

5.  $\text{CO}(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightleftharpoons \text{CO}_2(\text{g}) + \text{H}_2(\text{g})$  1,5 T  
 a desno 0,5 T  
 b desno 0,5 T  
 c se ne spremeni 0,5 T  
 d desno 0,5 T  
**Skupaj: 3,5 T**

6. kisline 1, 6 1 T  
 baze 2, 3, 4 1 T  
**Skupaj: 2,0 T**

- 7.1 pH vrednost se povečuje 0,5 T  
 7.2 10 : 90 1,0 T  
 7.3  $K_a = 2,8 \cdot 10^{-8}$  2,0 T  
**Skupaj: 3,5 T**

8.



$$v = -1,7 \cdot 10^{-5} \text{ mol/Ls}$$

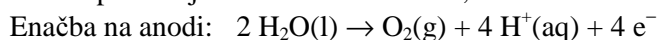
1,0 T

1,5 T

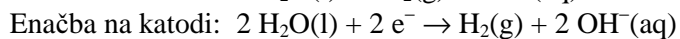
**Skupaj: 2,5 T**

9. Shema ponazarja: elektrolitsko celico, elektrolizo

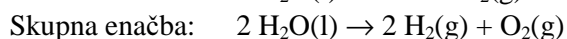
0,5 T



1,5 T



1,5 T



1,0 T

**Skupaj: 4,5 T**10.1  $4 \text{FeCr}_2\text{O}_4(\text{s}) + 8 \text{K}_2\text{CO}_3(\text{s}) + 7 \text{O}_2(\text{g}) \rightarrow 8 \text{K}_2\text{CrO}_4(\text{s}) + 2 \text{Fe}_2\text{O}_3(\text{s}) + 8 \text{CO}_2(\text{g})$ 

1,5 T

10.2 teoretično m(kalijevega kromata(VI)) = 293 kg

2,0 T

Izkoristek = 66,2 %

0,5 T

**Skupaj: 4,0 T****Vse skupaj: 30,0 T**