

Respostas das Listas 3, 4 e 5

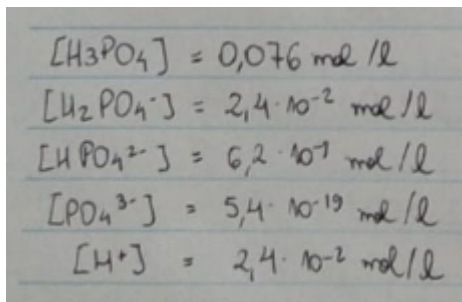
Lista 3

2 - $K_p = 6,25$

4 - a) $1,265 \cdot 10^{-5} \text{ mol/L}$

5 - $\text{pH} = 5,1$

6 -



7 - $\text{pH} = 6,81$

8 - pH do tampão = 4,45
 pH depois de reagir = 5,57

9 - $V_{\text{HCl}} = 62,5 \text{ ml}$

10 - $K = 0,5$

Lista 4

1 - (e) 0,8

2 - (a) 200s; (b) 405,46s

3 - (a) 1

4 - $E_a/R = 2$

6 - 25 °C: $t = 62,2 \cdot 10^3$ s; 65 °C: $t = 443$ s

7 - $t = 20$ s

8 - 27

Lista 5

1 - (g) +1,10 V

2 - $i = 16,1 \text{ A}$

4 - $\text{pH} = 2,043$

5 - $\Delta G = -2,12 \cdot 10^5 \text{ J}$

6 - $E = +0,18 \text{ V}$

7 - $K_{\text{ps}} = 1,6 \cdot 10^{-10}$

8 - 805 kg