

Utilize as informações encontradas nos apêndices dos principais livros de Físico-Química para determine o potencial da seguinte célula:

- a)  $\text{Pt(s)} \mid \text{H}_2(\text{g}, 1,0 \text{ atm}) \parallel \text{H}_2(\text{g}, 1,0 \text{ atm}) \mid \text{Pt(s)}$
- b)  $\text{Zn(s)} \mid \text{Zn}^{2+}(\text{aq}, 0,10 \text{ mol.L}^{-1}) \parallel \text{Ni}^{2+}(\text{aq}, 0,0010 \text{ mol.L}^{-1}) \mid \text{Ni(s)}$
- c)  $\text{Pt(s)} \mid \text{Cl}_2(\text{g}, 100 \text{ Torr}) \parallel \text{H}_2(\text{g}, 450 \text{ Torr}) \mid \text{Pt(s)}$
- d)  $\text{Sn(s)} \mid \text{Sn}^{2+}(\text{aq}, 0,020 \text{ mol.L}^{-1}) \parallel \text{Sn}^{2+}(\text{aq}, 1,0 \text{ mol.L}^{-1}) \mid \text{Sn(s)}$
- e)  $\text{Cr(s)} \mid \text{Cr}^{3+}(\text{aq}, 0,10 \text{ mol.L}^{-1}) \parallel \text{Pb}^{2+}(\text{aq}, 1,00 \times 10^{-5} \text{ mol.L}^{-1}) \mid \text{Pb(s)}$
- f)  $\text{Zn(s)} \mid \text{Zn}^{2+}(\text{aq}, 1,5 \text{ mol.L}^{-1}) \parallel \text{Fe}^{2+}(\text{aq}, 0,1 \text{ mol.L}^{-1}) \mid \text{Fe(s)}$
- g)  $\text{Fe(s)} \mid \text{Fe}^{2+}(\text{aq}, 0,1 \text{ mol.L}^{-1}) \parallel \text{Pb}^{2+}(\text{aq}, 0,001 \text{ mol.L}^{-1}) \mid \text{Pb(s)}$
- h)  $\text{Cu(s)} \mid \text{Cu}^{2+}(\text{aq}, 0,02 \text{ mol.L}^{-1}) \parallel \text{Cu}^{2+}(\text{aq}, 0,1 \text{ mol.L}^{-1}) \mid \text{Cu(s)}$
- i)  $\text{Pb(s)} \mid \text{Pb}^{2+}(\text{aq}, 0,001 \text{ mol.L}^{-1}) \parallel \text{Pb}^{2+}(\text{aq}, 1,0 \text{ mol.L}^{-1}) \mid \text{Pb(s)}$
- j)  $\text{Sn(s)} \mid \text{Sn}^{4+}(\text{aq}, 0,003 \text{ mol.L}^{-1}) \parallel \text{Fe}^{3+}(\text{aq}, 0,0001 \text{ mol.L}^{-1}) \mid \text{Fe(s)}$