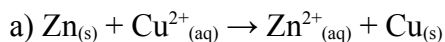
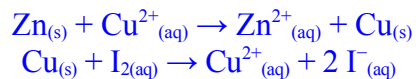


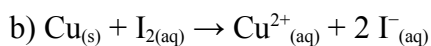
Problema722: Usando la tabla de potenciales normales, calcula las constantes de equilibrio de las siguientes reacciones a 298K:



$$E^{\circ}_{\text{pila}} = E^{\circ}_{\text{cat}} - E^{\circ}_{\text{án}} = E^{\circ}_{\text{Cu}^{2+}/\text{Cu}} - E^{\circ}_{\text{Zn}^{2+}/\text{Zn}} = +0,34 - (-0,76) = +1,10\text{V}$$

$$K = 10^{\frac{nE^{\circ}}{0,0592}}$$

$$K = 10^{\frac{2 \cdot 1,10}{0,0592}} = \underline{\underline{1,45 \cdot 10^{37}}}$$



$$E^{\circ}_{\text{pila}} = E^{\circ}_{\text{cat}} - E^{\circ}_{\text{án}} = E^{\circ}_{\text{I}_2/\text{I}^{-}} - E^{\circ}_{\text{Cu}^{2+}/\text{Cu}} = +0,53 - (+0,34) = +0,19\text{V}$$

$$K = 10^{\frac{nE^{\circ}}{0,0592}}$$

$$K = 10^{\frac{2 \cdot 0,19}{0,0592}} = \underline{\underline{2,62 \cdot 10^6}}$$