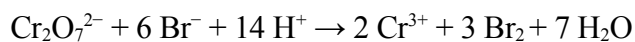
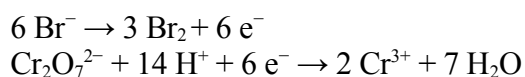
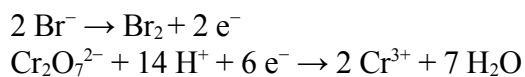
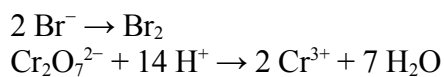
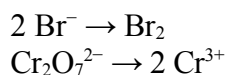
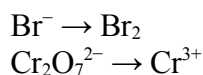
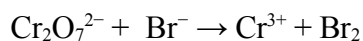


Problema716: ¿Qué cantidad de Br<sub>2</sub> se obtendrá en la reducción completa en medio ácido de 150ml de una disolución 0,5M de dicromato de potasio, K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, si al reaccionar con una disolución de KBr se transforma en una sal de Cr(III)?



$$n(\text{Cr}_2\text{O}_7^{2-}) = M \cdot V = 0,5\text{M} \cdot 0,150\text{L} = 0,075 \text{ mol Cr}_2\text{O}_7^{2-}$$

$$0,075 \text{ mol Cr}_2\text{O}_7^{2-} \cdot \frac{3 \text{ mol Br}_2}{1 \text{ mol Cr}_2\text{O}_7^{2-}} \cdot \frac{159,8 \text{ g Br}_2}{1 \text{ mol Br}_2} = \underline{\underline{35,96 \text{ g Br}_2}}$$