

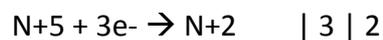
Answer on Question#39261 - Chemistry - Inorganic Chemistry

Question:

How to balance $\text{MnS} + \text{HCl} + \text{HNO}_3 \rightarrow \text{MnCl}_2 + \text{NO} + \text{S} + \text{H}_2\text{O}$

Answer:

Write the electron balance for this equation:



Hence the coefficients near sulfur-containing substance is 3, and the one near nitrogen compounds is 2:



Now we can find the coefficients near H_2O and HCl via oxygen and hydrogen balance. Then check the correctness via chlorine balance.

