



REDOX REACTIONS

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UNDER BASIC CONDITIONS

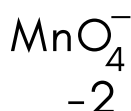
FINDING OXIDATION NUMBERS

Oxidation Numbers in Charged Compounds

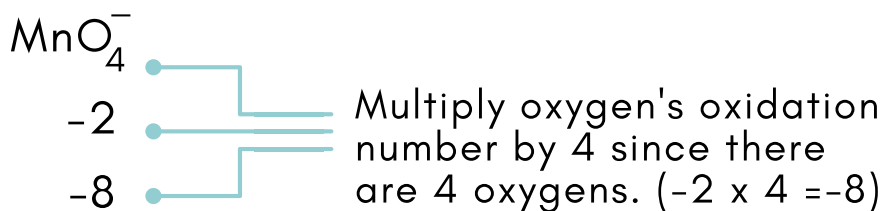
Example 3: MnO_4^-

Step 1: Identify the oxidation number that is known

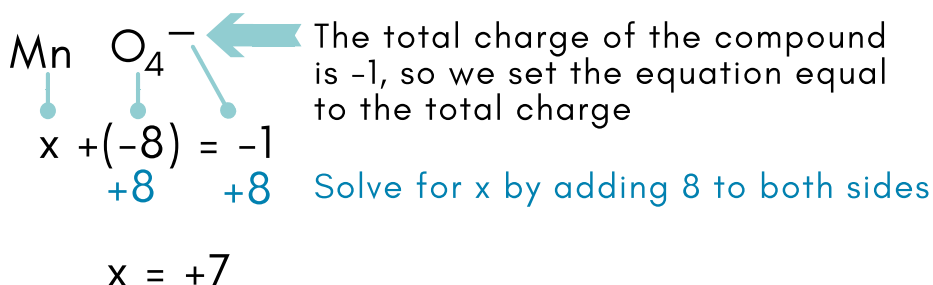
- Oxygen has an oxidation number of -2



Step 2: Since we do not know the oxidation number of Mn we have to do some math to figure it out.



Let's put this into an algebraic equation and solve for x or the oxidation number of Mn.



Oxidation numbers:

