

Oxidation numbers

Give the oxidation state of each element in the following compounds

Zn

 CO_3^{-2} $\text{Pb}(\text{NO}_3)_2$ NH_3 $\text{Zn}(\text{NO}_3)_2$ H_2O

HI

 H_2O_2 HIO_4 NO_3^- H_2SO_4 O_2

CO

 N_2 CO_2 CH_4

In the following reactions, identify: the element which is oxidized, the element reduced, the oxidizing agent, and the reducing agent.

