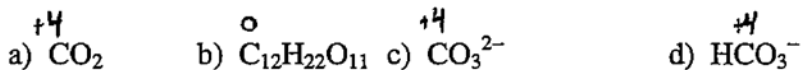


Oxidation Numbers

1. Determine the oxidation number for **carbon** in each of the following substances:



2. Determine the oxidation number of **chlorine** in each of the following substances:



3. Determine the oxidation number of **manganese** in each of the following substances:



4. Determine the oxidation number of the element in **bold** type in each of the following compounds or polyatomic ions:



5. For each of the following reactions, determine whether the element in **bold** type has been oxidized or reduced:

