Ionic and Covalent

Name
1.) What are two kinds of compounds?
2a.) In a water molecule, how many atoms are connected to each oxygen atom?
b.) How many are connected to hydrogen atoms?
3.) If a phosphate ion has the chemical formula of PO_4^{3-} answer the following questions. a.) What kind of chemical bond holds each oxygen atom to the phosphorus atom?
b.) How many atoms does the phosphorus atom connect to?
c.) What do you call an ion such as phosphate, which is a molecule that has an overall electric charge?
4.) In a compound that contains a polyatomic ion, there are both covalent bonds and ionic bonds. Where are the covalent bonds, and where are the ionic bonds?
5.) How many oxygen atoms are connected to each chromium atom in the dichromate ion?