HW 5

1. How many electrons and protons are in the molecule of ammonia, NH_3?
2. Which element is the better electron donor – the one with the nucleus charge of 3 or 19?
3. Separate the following elements into electron donors and electron acceptors: O, Na, Al, Mg, F. How many electrons each of them should give or accept to have the electron shell of neon?
4. Which element is a better electron acceptor – the one with the nucleus charge 7 or 15?
5. An atom becomes an ion if it gives or accepts electrons from its outer shell. Write down electron configurations of the elements with charges 3 and 9. Based on the octet rule which of these elements tends to make negatively charged ions and which one forms positively charged ions?