

Protons, Neutrons, and Electrons

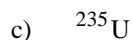
1. Determine the number of protons, neutrons, and electrons in each of the following.



6 protons, 7 neutrons, and 6 electrons

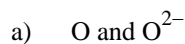


22 protons, 26 neutrons, and 22 electrons

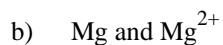


92 protons, 143 neutrons, and 92 electrons

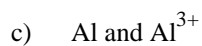
2. What is the difference between each of the following pairs?



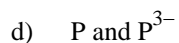
8 electrons in O, 10 electrons in O^{2-}



12 electrons in Mg, 10 electrons in Mg^{2+}



13 electrons in Al, 10 electrons in Al^{3+}



15 electrons in P, 18 electrons in P^{3-}

3. What is the difference between ^{35}Cl and ^{37}Cl ?

Number of neutrons. ^{35}Cl has 18 neutrons and ^{37}Cl has 20 neutrons. The two species are isotopes.