•	Imagine a Universe X in which electrons had <i>three</i> possible spin states ( <i>i.e.</i> with electron spin quantum numbers $-1$ , 0 and $+1$ ) instead of the two they have in our universe. Assume that all other properties of electrons and nuclei in Universe X are identical to those in our universe.	4
	What are the atomic numbers of the first two noble gases in Universe X?	
	Write down the ground state electron configuration of the atom with atomic number 14 in Universe X.	
	How would the energy difference between the 2s and 2p orbitals in multi-electron atoms compare between our universe and Universe X? Give a brief explanation of your answer.	