Chapter Two - Problems: 14, 50, 52

Michael Brodskiy

Instructor: Mr. Morgan

August 25, 2020

- 14. How many neutrons, protons, and electrons does each have, and what element does each represent?
 - (a) $^{75}_{33}A \Rightarrow 33p^+, 33e^-, 42n$ This element is arsenic
 - (b) $^{51}_{23}L\Rightarrow 23p^+, 23e^-, 28n$ This element is vanadium
 - (c) $^{131}_{54}Z \Rightarrow 54p^+, 54e^-, 77n$ This element is xenon
- 50. Give the number of protons and electrons in the following:
 - (a) $S_8 \Rightarrow 128p^+, 128e^-$
 - (b) $SO_4^{2-} \Rightarrow 48p^+, 50e^-$
 - (c) $H_2S \Rightarrow 18p^+, 18e^-$
 - (d) $S^{2-} \Rightarrow 16p^+, 18e^-$
- 52. Complete the table:

Nuclear	Metal, Nonmetal			Number of
Symbol	Metalloid	Group	Period	Neutrons
Al-27	Metal	13	3	14
Te-128	Metalloid	16	5	76
Xe-134	Nonmetal	18	5	80
C-12	Nonmetal	14	2	8