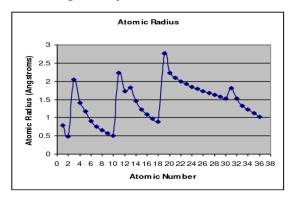
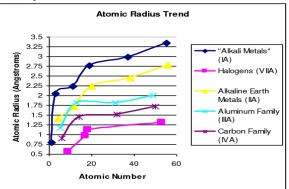
The following charts represent the Atomic Radii trends found on the periodic table.





Questions:

- 1. What is the general periodic trend for atomic radius?
- 2. What is the general group trend for atomic radius?
- 3. What makes the sodium atom different from the magnesium atom?
- 4. As you increase across the period, what happens to the number of electrons? Protons?
- 5. Calculate $Z_{\mbox{\scriptsize eff}}$ for Sulfur and Chlorine
- 6. Explain why the Neon atom is the smallest atom in the 2^{nd} energy level
- 7. Why is Gallium a bigger atom than Zinc? Use your $Z_{\rm eff}$ calculations to prove your answer.
- 8. Does Z_{eff} explain why the atomic radii increase as you progress down a column? Explain.
- 9. Explain why the atomic radii of Helium and Neon are so close when considering Neon has 1 more energy level.