**SCH 3UI Ionic Bonding Questions**

1. What types of elements form ionic bonds with each other?
2. Which of the representative elements tend to form positive ions? Which tend to form negative ions?
3. What is the minimum number of different ions in the formula of an ionic compound? Explain.
4. Predict the charge on the most stable ion formed by each of the following elements. Indicate the ion by writing the symbol with complete with charge.
   1. sulfur
   2. barium
   3. bromine
   4. chlorine
   5. calcium
   6. potassium
   7. phosphorus
   8. rubidium
   9. beryllium
5. a. How do the Lewis dot diagrams of metal ions differ from those of non-metal ions?
6. How are the Lewis dot diagrams of metal ions similar to those of non-metal ions?
7. Use all three methods to show the formation of bond between
   1. lithium iodide
   2. barium chloride
   3. potassium oxide
   4. calcium fluoride