Reading Assignment: Acid Precipitation

A. Read p. 325 to 328 in your textbook and answer the following questions. Place these questions and answers in your lab book.

1. Define the terms “acid precipitation” and “acid deposition”.
2. How can acid precipitation be neutralized? Write the equation.
3. Why is acid rain less of a problem in the Great Lakes Basin than in the lakes in Northern Ontario?
4. What do acidified lakes do to normally insoluble aluminum hydroxide? Write the equation. Why is this a problem?
5. What else does acid precipitation cause an increase in? Why is it a problem?
6. Copy Table 1 on p. 326.
7. What is special about frogs in acidic conditions?
8. What is “liming”? Write an equation that is an example of liming.
9. Describe how the products of liming, namely carbonic acid and calcium ions, help improve the conditions of an acidic lake or soil.
10. List some of the advantages and disadvantages to using lime for neutralizing acidic water and soil.
11. Where do approximately 50 % of the sulfur oxides deposited in Canada come from? Why?
12. What is Canada’s commitment under the Kyoto protocol? How can individual Canadians help?
13. How could planting trees help to reduce Canada’s acid rain problem?? Explain. (Hint: What do trees “breathe”?)