Instrumental Analysis
Problem Set 2—due Friday, September 20, 2001

1. (5 points) Skoog 3-2. **Assume A is infinitely large, not 200.**

2. (10 points) Skoog 3-9. This problem is easier to solve if you recopy the diagram and label each point (node) and current.

3. (5 points) Skoog 3-13

4. (10 points) Skoog 3-14

5. (10 points) Skoog 3-15

6. (10 points) Consider the following circuit:

where $v_i$ is described by the following plot:

![Input Voltage Plot](image)

Derive expressions for $v_oA$ and $v_oB$, and sketch (on the same plot) both voltages as a function of time (including at time $t = t_1$).