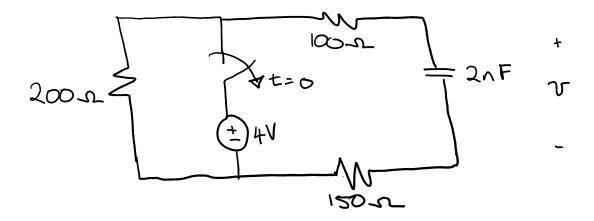
Name: Student ID:

Pre-tutorial 5 Questions (to be attempted before class on May 17th, 2019)

Chapter 8, Ex 20: Source-free RC circuit

The switch drawn in the circuit below has been closed for such a long time that any transients which might have arisen from first connecting the voltage source have disappeared.



a) Determine the circuit time constant

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b) Calculate the voltage v(t) at t= au, 2 au, and 5 au

Chapter 8, Ex 49: Driven RL circuit

The circuit shown below is powered by a source which is inactive for t < 0. Obtain an expression for i(t) valid for all t.

