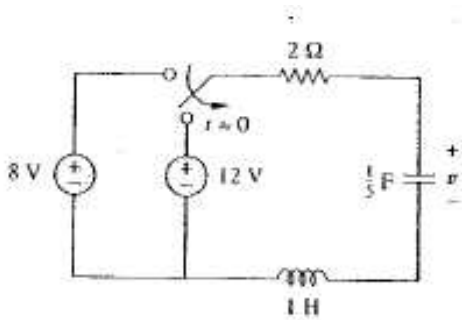### E84: HW5 (Due Wednesday, Oct. 10<sup>th</sup> - NO LATE DAYS)

1. (15 points) FoEE 3.57

2. (10 points) FoEE 3.58

3. (10 points) FoEE 3.59

4. (15 points) Determine v(t) for t>0 for the following circuit:



5. (15 points) FoEE 3.82 – Only set up the $2^{nd}$ order differential equation that will allow you to solve for the step response, $v_o(t)$ when C=0.2F and $v_s(t) = 2u(t)$ V.

6. (5 points) 4.5 b

Optional problems:

7. (0 points) 3.60

8. (0 points) 3.61

9. (0 points) 3.62