

Homework 8
EE 220 Circuits I Fall 2019
Monday, November 4, 2019

- 1) 8.5
- 2) 8.16 First, determine $i(0)$ and $\left. \frac{di}{dt} \right|_{t=0^+}$
- 3) 8.24 Assume $v_C(0) = 0$. First, determine $i(0)$, $\left. \frac{di}{dt} \right|_{t=0^+}$, and $\left. \frac{dv_C}{dt} \right|_{t=0^+}$.
- 4) 8.39 First, determine $v(0)$, $\left. \frac{dv}{dt} \right|_{t=0^+}$, and $v(\infty)$.
- 5) 8.45 First, determine $i(0)$, $\left. \frac{di}{dt} \right|_{t=0^+}$, $i(\infty)$, $v(0)$, $\left. \frac{dv}{dt} \right|_{t=0^+}$, and $v(\infty)$.
- 6) 8.54 Determine the natural-response (switch in position B) differential equations for i and v for $t > 0$ in terms of the circuit component variables.

Due Friday November 8, 2019