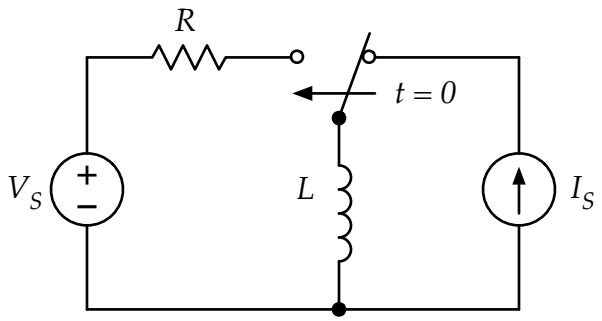
EE 201 — HW 7-11 Name_____

In the circuit shown, the switch flips from the right to the left at $t = 0$. the expressions for the inductor current and voltage for $t > 0$ are:



$$i_L(t) = 4\text{ A} + (4\text{ A}) \cdot e^{-t/0.025\text{ s}}$$

$$v_L(t) = (-80\text{V}) \cdot e^{-t/0.025\text{ s}}$$

a) Specify the numerical values for V_S, I_S, R and L.

b) At what time during the transient does the energy stored in the inductor reach 9 J?

V_S =_____; I_S = _____

R =_____; L = _____

t (E = 9 J) = _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.