4. The circuit below had been energized since before dinosaurs roamed the earth. At some later point in time however, a 50-ton tita

(a) What is the value of $I_L$ at time $t_0$? (to is just before the current source gets stepped on.)
(b) What is the value of $I_R$ at time $t_0$?
(c) What is the value of $V_L$ at time $t_0$?
(d) What is the value of $I_L$ at time $t_0^+$? (current source has just been removed)
(e) What is the value of $I_R$ at time $t_0^+$?
(f) What is the value of $V_L$ at time $t_0^+$?
(g) What is the value of $I_L$ at time $t = \infty$?
(h) What is the value of $I_R$ at time $t = \infty$?

\[ I_1 = 1 \text{mA} \]

\[ L_1 = 2 \text{mH} \]

\[ R_1 = 1 \]

\[ V_L = 0 \]

\[ V_{R1} = -0.001 \text{V} \]

\[ I_L = 0 \text{ at } t = \infty \]

\[ I_R = \text{zero at } t = \infty \]