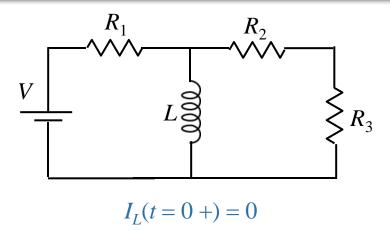
Calculation

A B C D E

The switch in the circuit shown has been open for a long time. At t = 0, the switch is closed.



What is the magnitude of I_2 , the current in R_2 , immediately after the switch is closed?

A)
$$I_2 = \frac{V}{R_1}$$
 B) $I_2 = \frac{V}{R_2 + R_3}$ C) $I_2 = \frac{V}{R_1 + R_2 + R_3}$ D) $I_2 = \frac{VR_2R_3}{R_2 + R_3}$

We know $I_L = 0$ immediately after switch is closed



Immediately after switch is closed, circuit looks like:

