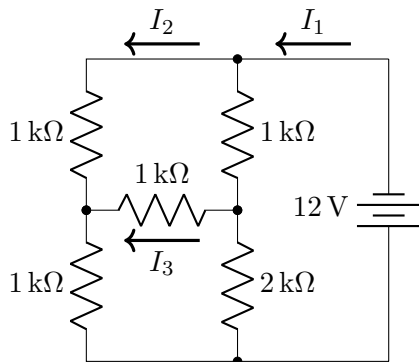


- (3) **1.** Complete the exercise on pp.40–41 in the book, started in class: determine *by hand* the matrix-method solutions to the currents I_A , I_B and I_C for the mesh solution; and $i_1..i_6$ for the KCL/KVL solution. Later confirm by using Maple or Matlab — yes, the solution is given on p.42, but practice interacting with Maple/Matlab, writing and saving scripts, *etc.* Verify that all solutions agree.
- (6) **2.** Calculate I_1 , I_2 , I_3 , both manually and the computer-assisted way. Choose a different method (mesh or “straight” KCL/KVL) for the manual and computer-assisted solutions.



- (4) **3.** (a) At time $t = 10$ s, the switch is open and $i_L = 1.0$ A. What is i_L at $t = 20$ s ?
 (b) At time $t = 20$ s, the switch is closed. At what subsequent time is $i_L = 0$?

