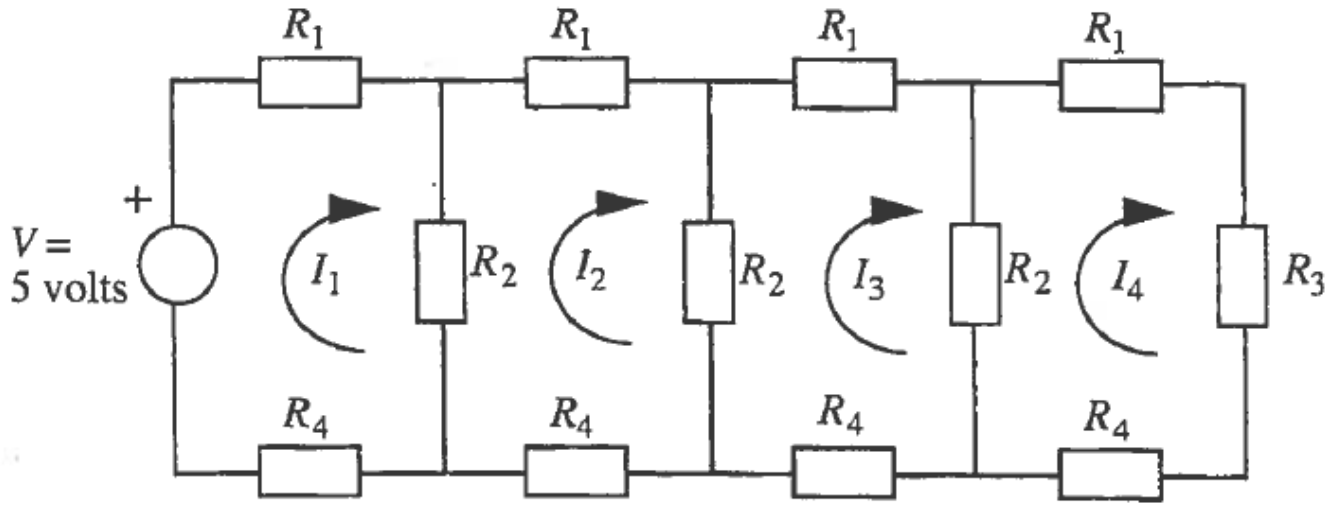
Sample 4a



In the electrical network shown above, the equations for the currents I_1 – I_4 are:

$$(R_1+R_2+R_4)I_1 - R_2I_2 = V$$

$$(R_1+2R_2+R_4)I_2 - R_2I_1 - R_2I_3 = 0$$

$$(R_1+2R_2+R_4)I_3 - R_2I_2 - R_2I_4 = 0$$

$$(R_1+R_2+R_3+R_4)I_4 - R_2I_3 = 0$$

where R_1=0.3, R_2=0.6, R_3=0.2, R_4=0.5, and V=5 . Write a MATLAB program to calculate and print the currents I_1 – I_4 .

The output of this program should look like this:

```
I =

    4.1678
    1.3914
    0.4703
    0.1764
```