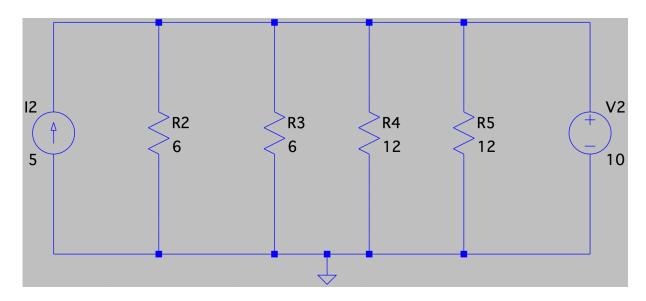
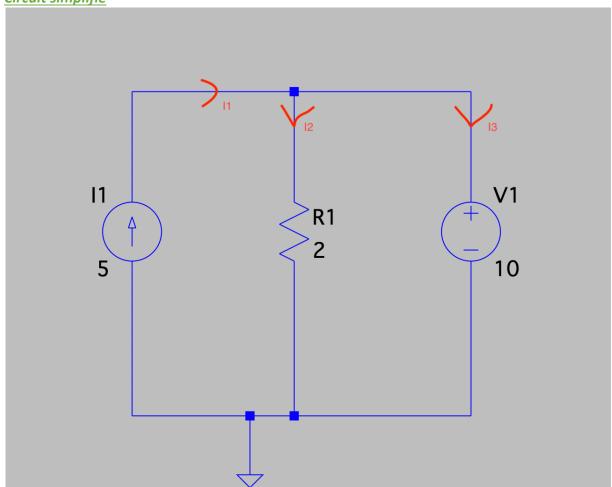
# Travail 1 – circuit DC

### Circuit de base



## Circuit simplifié



#### Calcule des tensions

$$V = R*I$$
  
 $V_1 = 5*2 = 10V$ 

#### Calcule des courants

$$I = \frac{V}{R}$$

$$I_1 = 5A$$

$$I_2 = \frac{10}{2} = 5A$$

$$I_3 = 0$$

Pour que la sommes des courants soit égale à 0, 13 doit être égale à 0.

#### Calcule de puissance

$$P = V*I$$

$$P_{R1} = 10*5 = 50W$$

```
--- Expanded Deck Component Count ---
I's 1
R's 1
V's 1
tot: 3
    --- Expanded Netlist ---
* /Users/sam/Documents/LTspice/Draft1.asc
r1 n001 0 2
v1 n001 0 10
i1 0 n001 5
•op
.end
Direct Newton iteration for .op point succeeded.
Operating Bias Point Solution:
V(n001)
                        10
                            voltage
                       5
I(I1)
                           device_current
I(R1)
                       5
                           device_current
I(V1)
                       0
                           device_current
Date: Sat Feb 13 10:11:51 2021
Total elapsed time: 0.005 seconds.
tnom = 27
temp = 27
method = trap
totiter = 3
traniter = 0
tranpoints = 0
accept = 0
rejected = 0
matrix size = 2
fillins = 0
solver = Normal
                        2 opcodes
Matrix Compiler1:
Matrix Compiler2:
                    9 opcodes
```