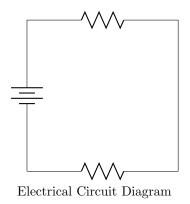
P01 Report

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### Chapter 1

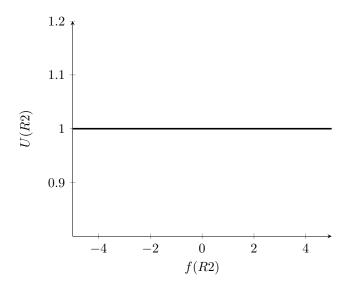
## Theoretical part



#### 1.1 Circuit Calculation

Theoretical calculation of the circuit V1=12.5V R1=3ohm R2=6ohm VR = (R x VT) / RT VR1= (R1 x V1) / RT = 12.5 V VR2= (R2 x V2)/ RT = 8.333 V

V1	12.5V
R1	3ohm
R2	60hm
UR1	12.5V
UR2	8.33V



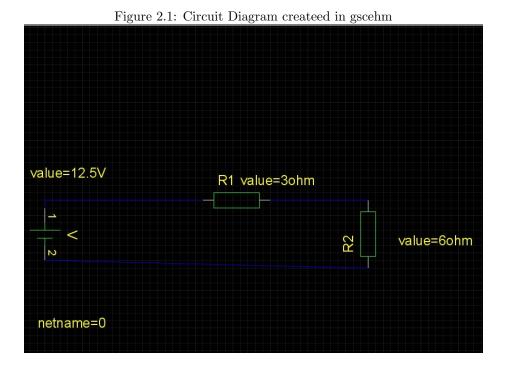
## Chapter 2

# Practical part

Practical Calculation

#### 2.1 Work with GEDA programs'

#### 2.1.1 'Work with gschem'



#### 2.1.2 'Work with gnetlist'

#### 2.1.3 'Work with ngspice'

V = "1" "2"

14.0

10.0

10.0

8.0

0.0

2.0

4.0

6.0

time
s

Figure 2.2: The plotted graph after using ngspice

### 2.2 Work with QUCS programs'

Image of Schematics

DC simulation

Curve and Table obtained from DC Simulation

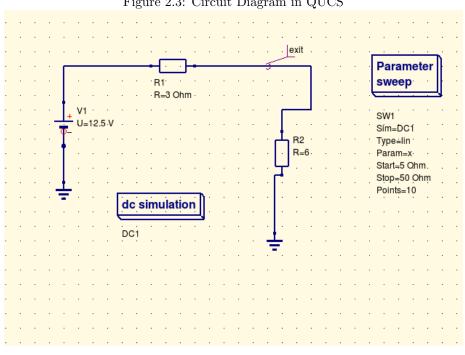


Figure 2.3: Circuit Diagram in QUCS

Figure 2.5: The following graph shows the DC simulation for the various obtained values

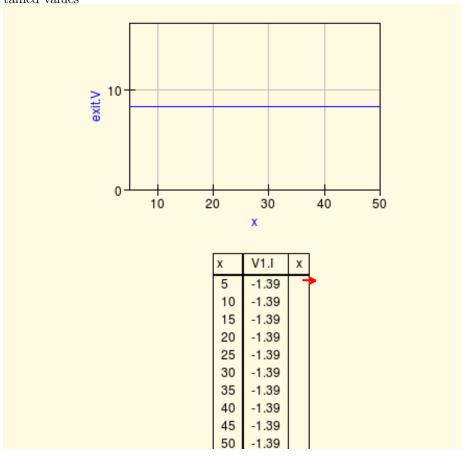


Figure 2.6: The following graph shows the Sweep Simulation for the various obtained values  $\frac{1}{2}$ 

