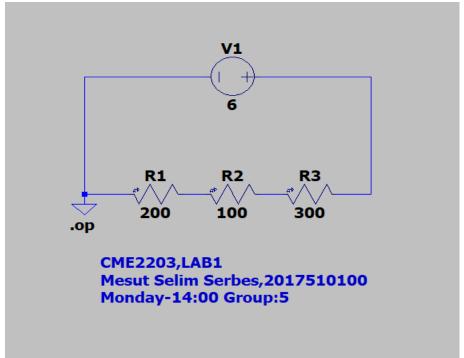
CME2203 Lab1 Preliminary Assignment

• A Solution



Operating Point			
V(n002):	2	voltage	
V(n003):	3	voltage	
V(n001):	6	voltage	
I(R3):	-0.01	device_current	
I(R2):	-0.01	device_current	
I(R1):	-0.01	device_current	
I(V1):	-0.01	device current	

V1 = 00.1x200=2V

V2 = 00.1x100=1V

V3 = 00.1x300=3V

P=V.i

If P<0 => generate

If P>0 => absord

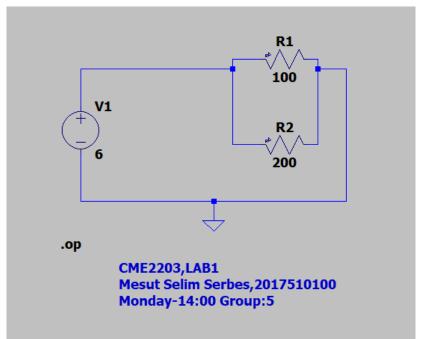
 P_0 =(-0.01).6=-0,06 W=> generate

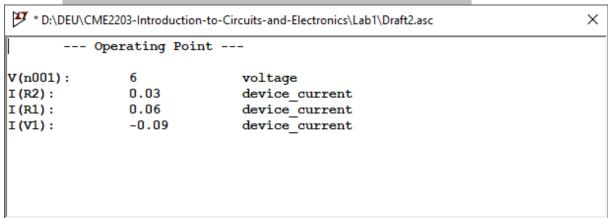
 $P_1=(-0.01).(-2)=0.02 W => absord$

 $P_2=(-0.01).(-1)=0.01 W => absord$

 $P_3=(-0.01).(-3)=0.03 W => absord$

• B Solution





P=V.i

If P<0 => generate

If P>0 => absord

 $P_0=(-0.09).6=-0,54 W=> generate$

 $P_1=(0.06).6=0,36 W => absord$

 $P_2=(-0.03).6=0,18 W => absord$

Current on R1=0.06A

Current on R2=0.03A

The current that passes on substance is inversely proportional to its resistance.

Low current flows through a substance with high resistance.