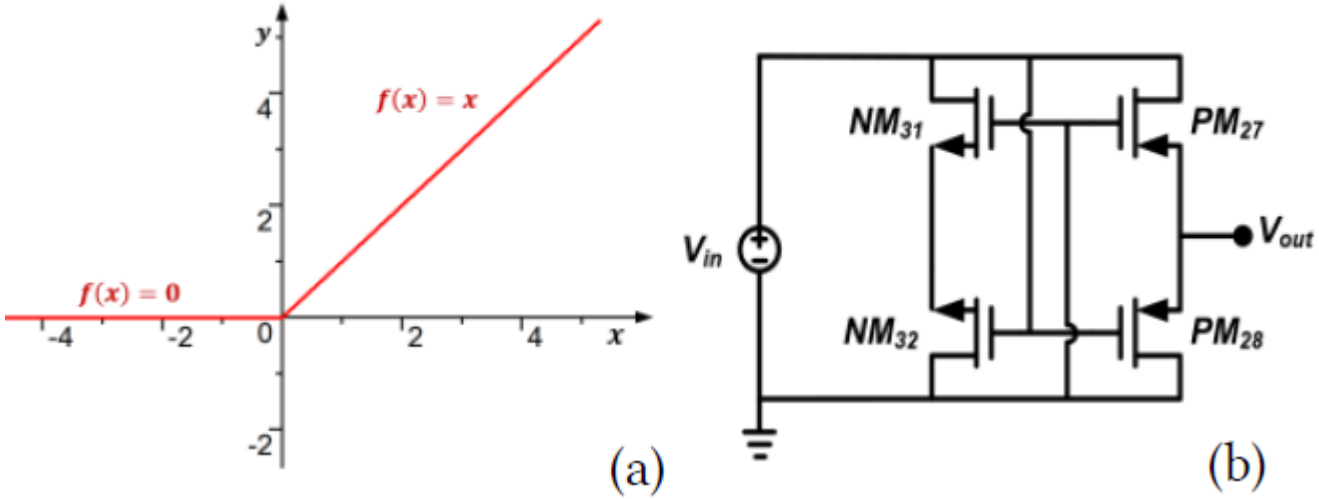
Lab 4

09/26/2022

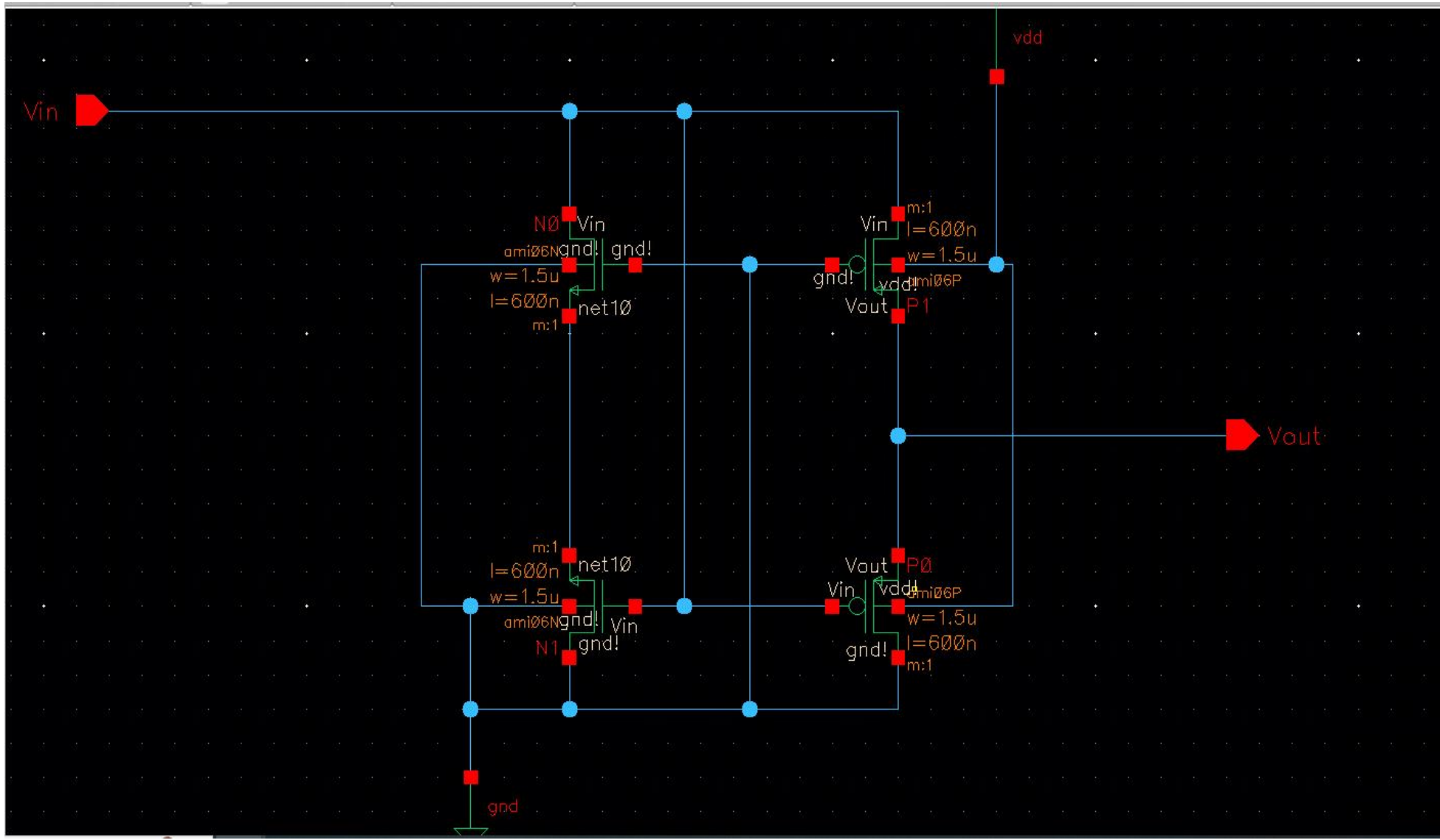
TA: You Zhou

ReLU Activation Function

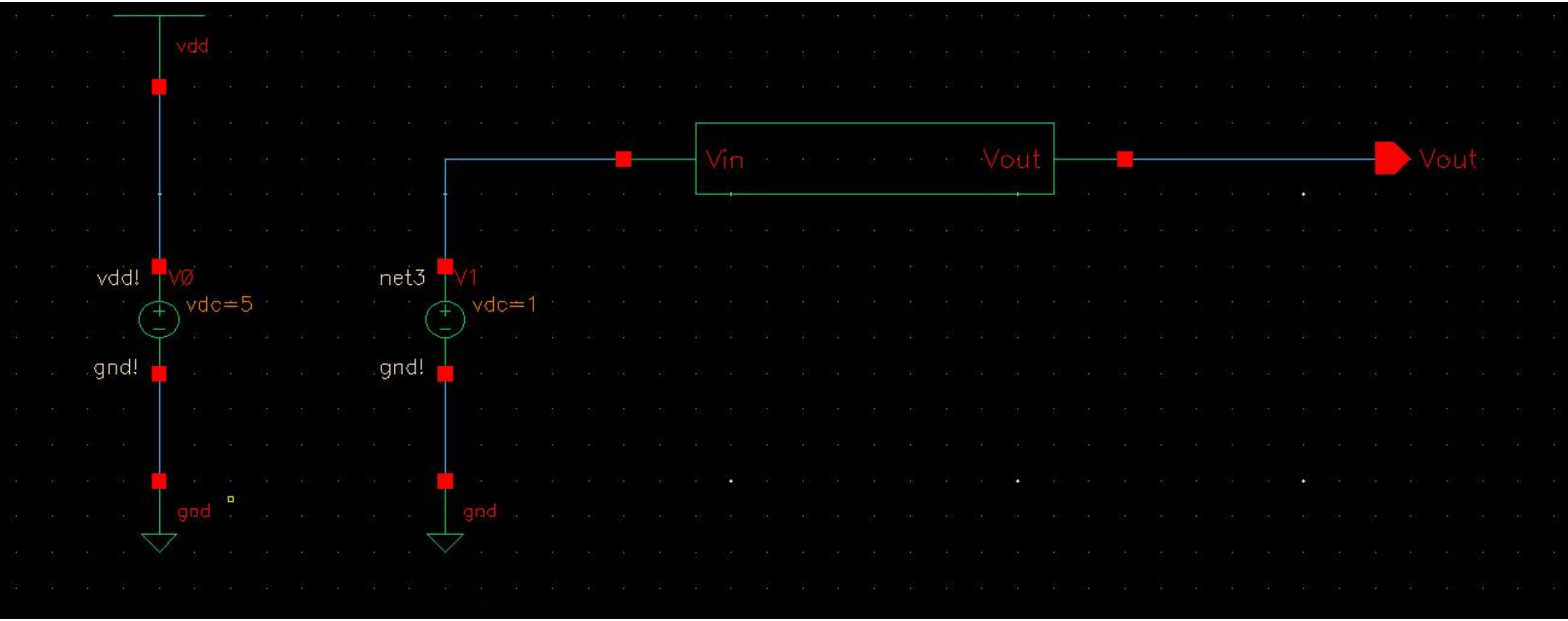
ReLU Activation Function Circuit



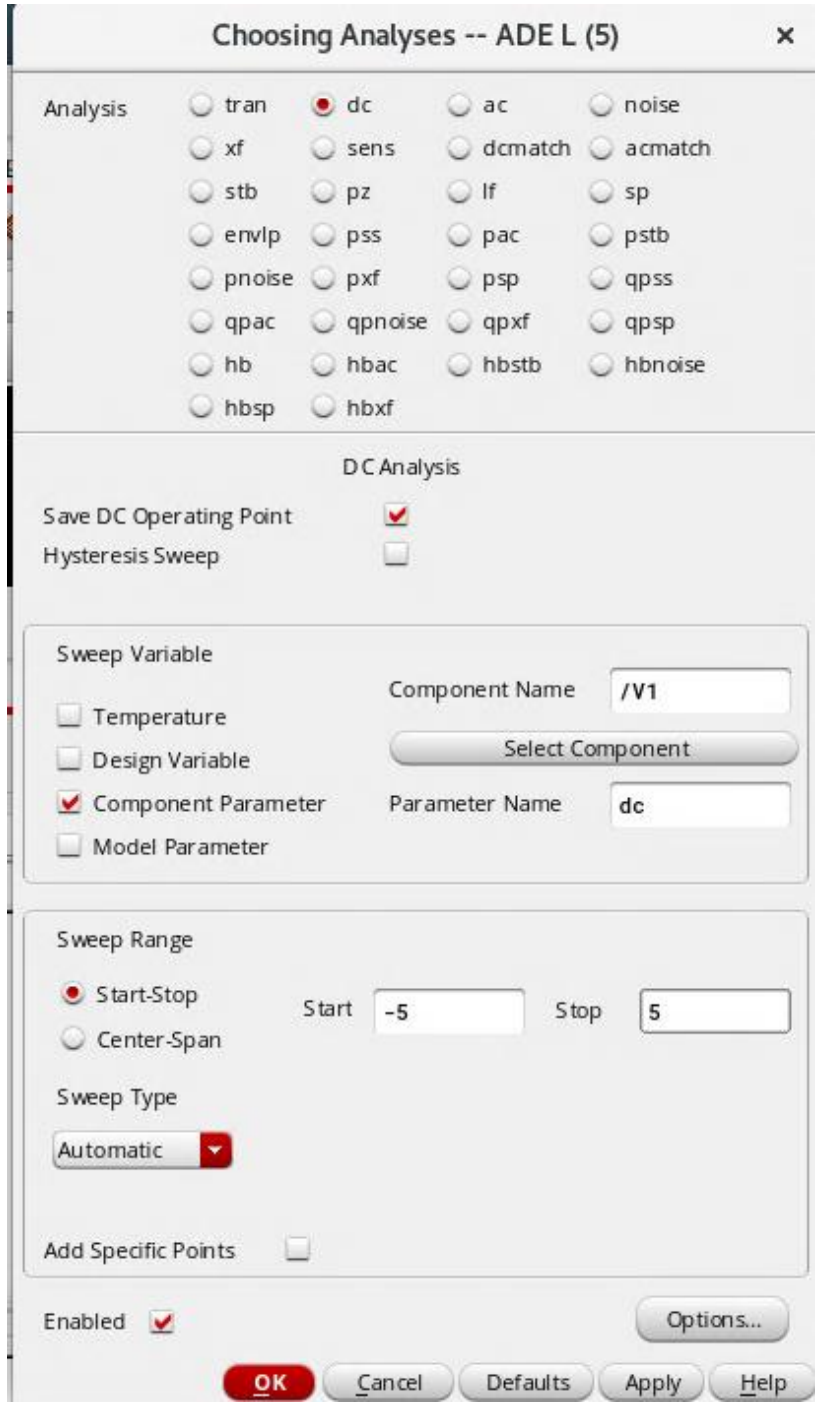
1. New cell view: ReLU Activation Function
2. PMOS x2, NMOS x2
3. Create Vin and Vout
4. Create Symbol



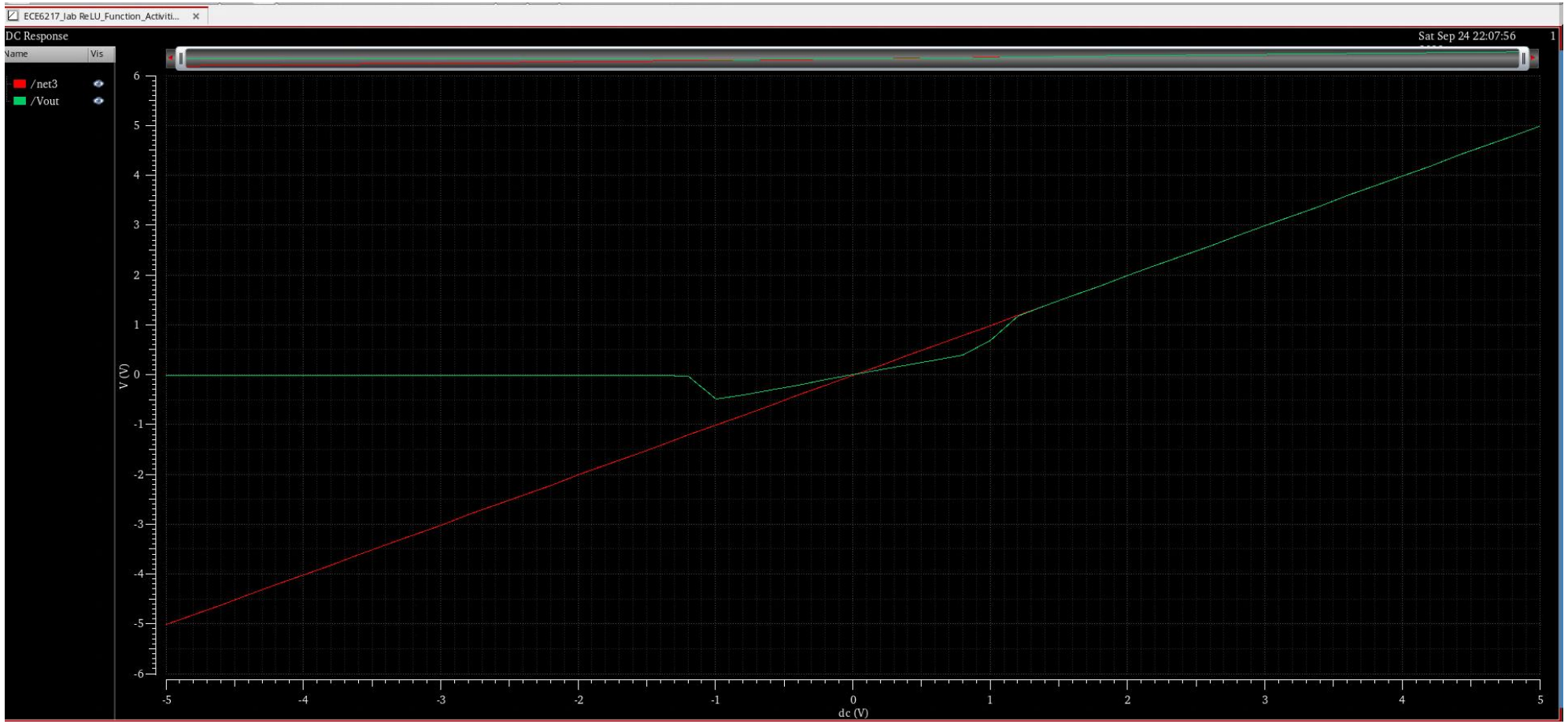
- Create Testbench
- Vdc x2



Create ADE L


Choosing Analyses -- ADE L (5)
Analysis
tran
dc
ac
noise
xf
sens
dcmatch
acmatch
stb
pz
lf
sp
envlp
pss
pac
pstb
pnoise
pxf
psp
qpss
qpac
qpnoise
qpxf
qpsp
hb
hbac
hbstb
hbnoise
hbsp
hbxf
DC Analysis
Save DC Operating Point
Hysteresis Sweep
Sweep Variable
Component Name
/V1
Temperature
Select Component
Design Variable
Component Parameter
Parameter Name
dc
Model Parameter
Sweep Range
Start-Stop
Start
-5
Stop
5
Center-Span
Sweep Type
Automatic
Add Specific Points
Enabled
Options...
OK
Cancel
Defaults
Apply
Help

DC response


ECE6217_lab ReLU_Function_Activiti...
DC Response
Sat Sep 24 22:07:56
Name
Vis
/net3
/Vout
V (V)
dc (V)
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-5
-4
-3
-2
-1
0
1
2
3
4
5