HW2:

Due on Oct. 26th.

11.41 (3 extra points)

(1) Turn in your .lis for Vout~0 and all Vov = 0.15 volts
(2) Turn in a WORD file with Waveview plots and explanation for
    (a) Plot [Vin versus Vout] for about -1.5 volts < Vin < 1.5 volts, and find the particular Vin that leads to Vout =0.
    (b) Plot Vout versus time with Vin = A*sin(ωt), A= 1.5 volts, ω= 1 MHz.

11.41

Model
.protect
.unprotect

Control
.temp=30
.GLOBAL vdd gnd vss
.option nomod post acout=0 ***
.op
.probe i(*)
.tran 0.5us 100ms

Power supply
*name + - value
v1 n3 GND -0.6V
v3 vdd GND 2.5V
v4 vss GND -2.5V
i1 vdd n1 0.1mA

Main
.model nch nmos level=1 vto=0.45 kp=250u lambda=0.1
.model pch pmos level=1 vto=-0.45 kp=100u lambda=0.2

m1 n1 n1 n2 vss nch l=0.18u w=6.4u

```
m2 n3 n3 n2 vdd pch l=0.18u w=16u
mn vdd n1 n4 vss nch l=0.18u w=??u m=??
mp vss n3 n4 vdd pch l=0.18u w=??u m=??

.end
```