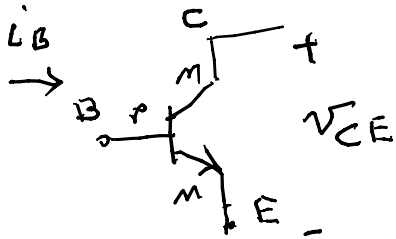


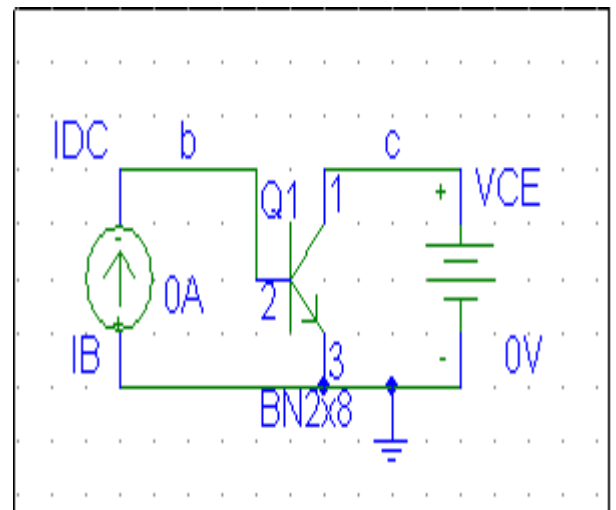
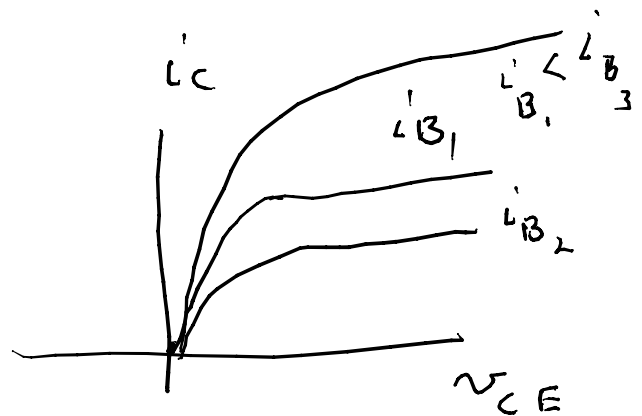
EE302
02/03/05

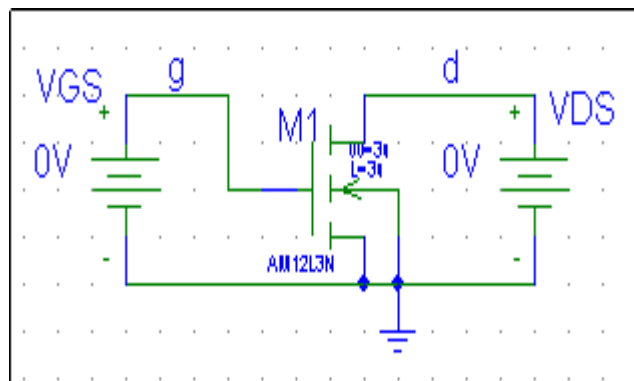
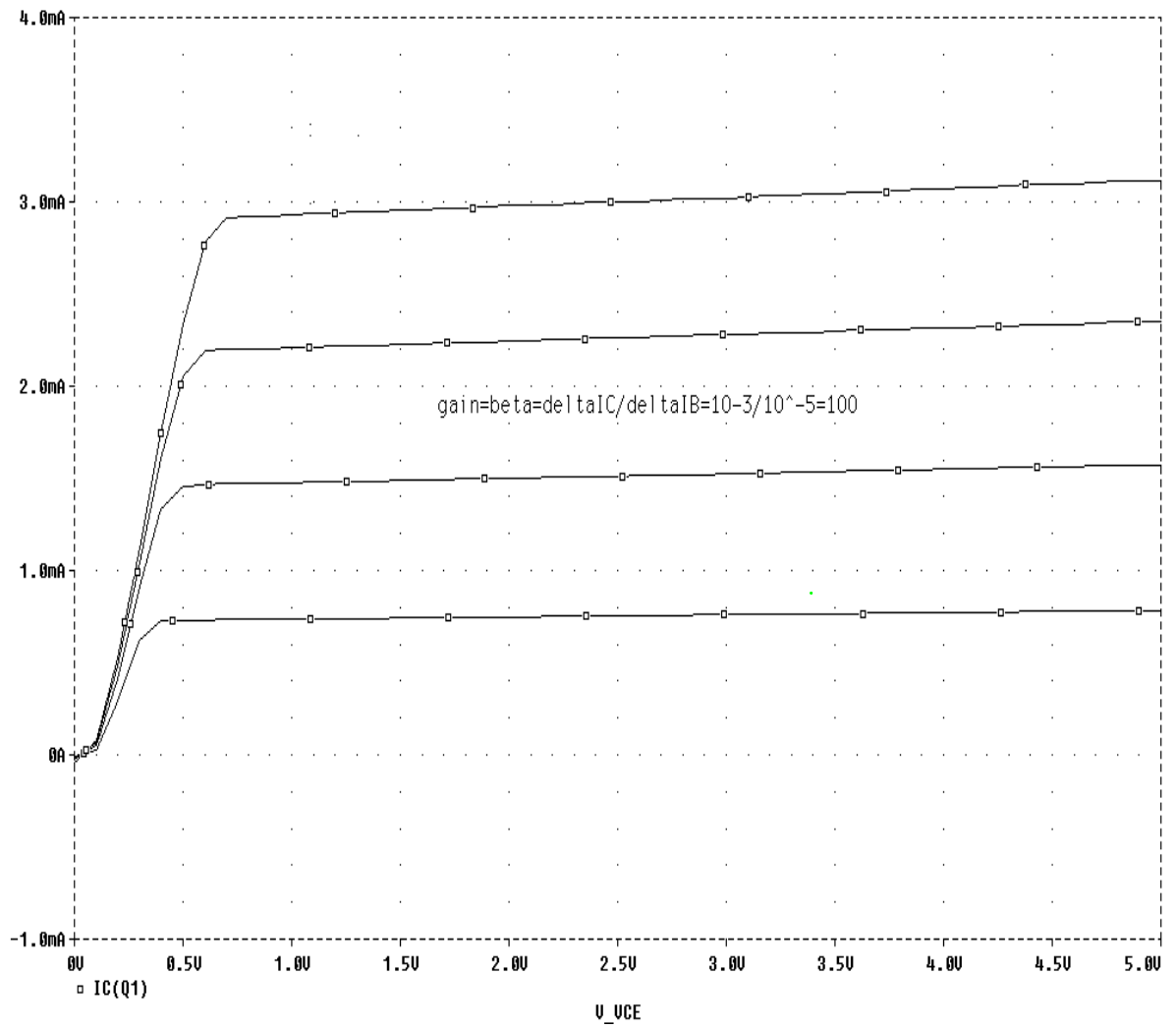
See LC & state variable oscillators using negative R to cancel L and C losses at end of these 02/03/05 notes

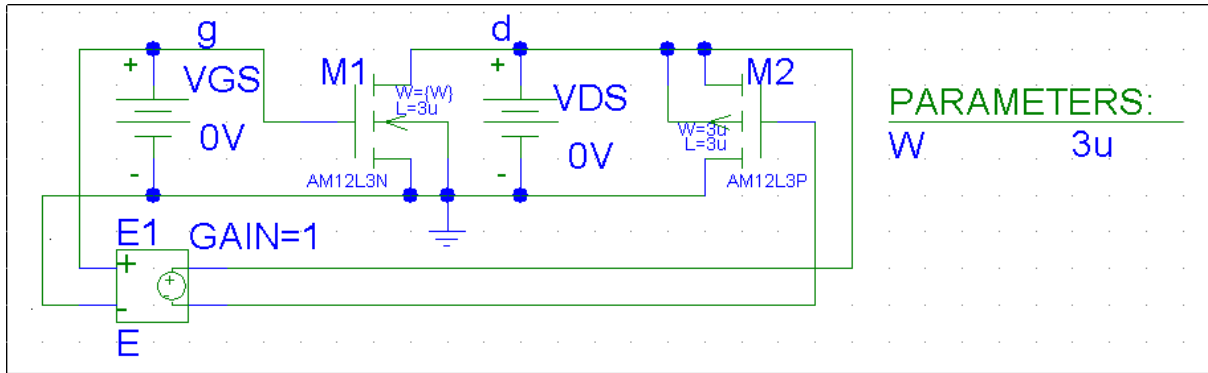
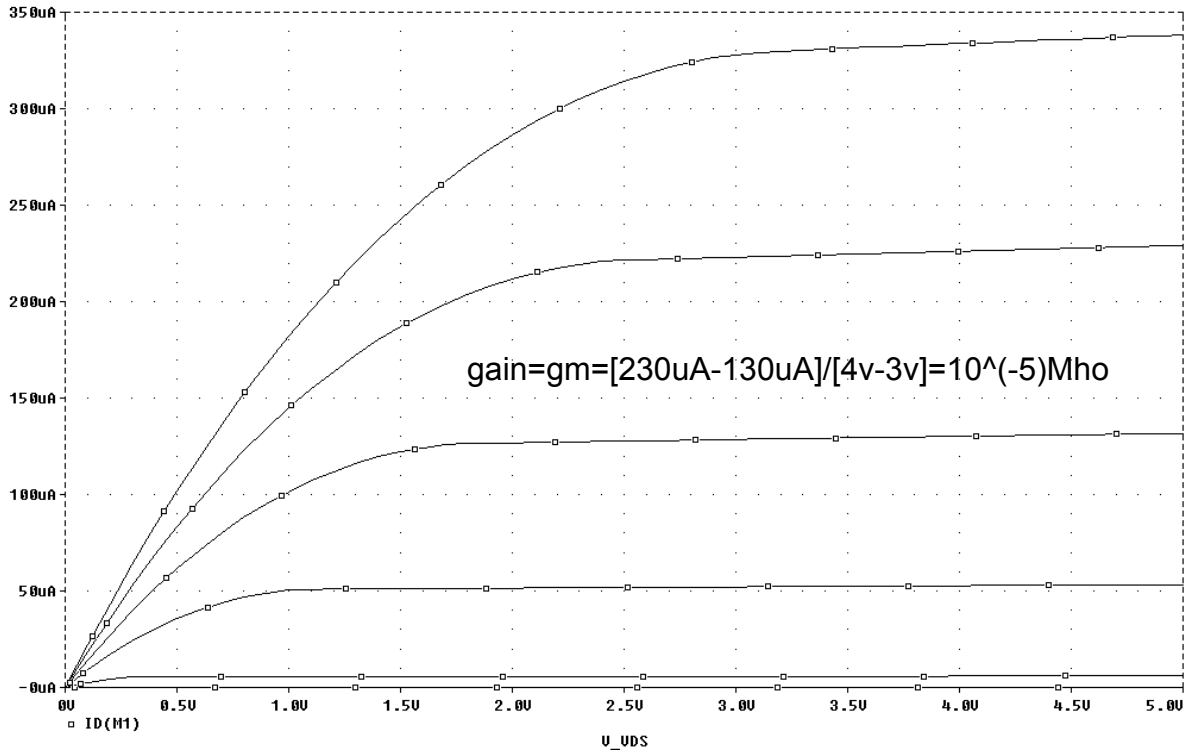
transistor curves

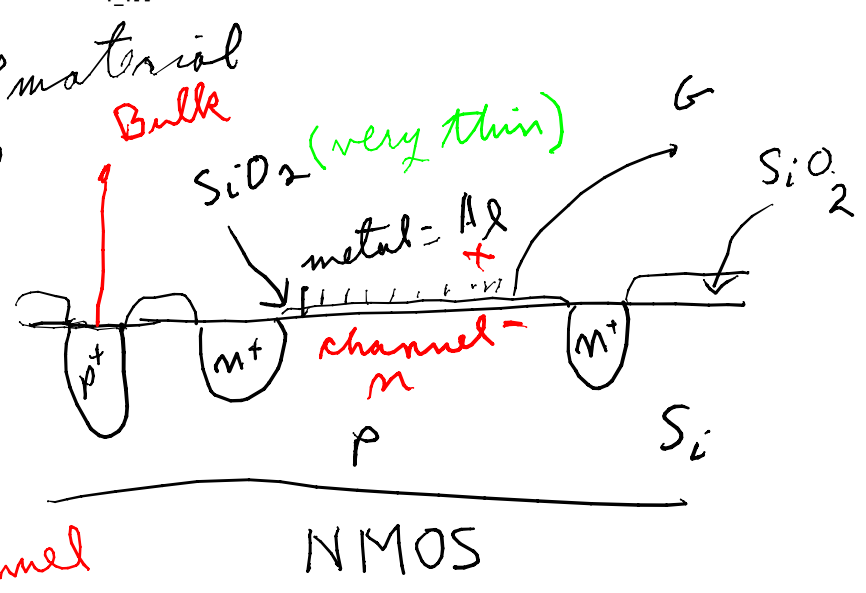
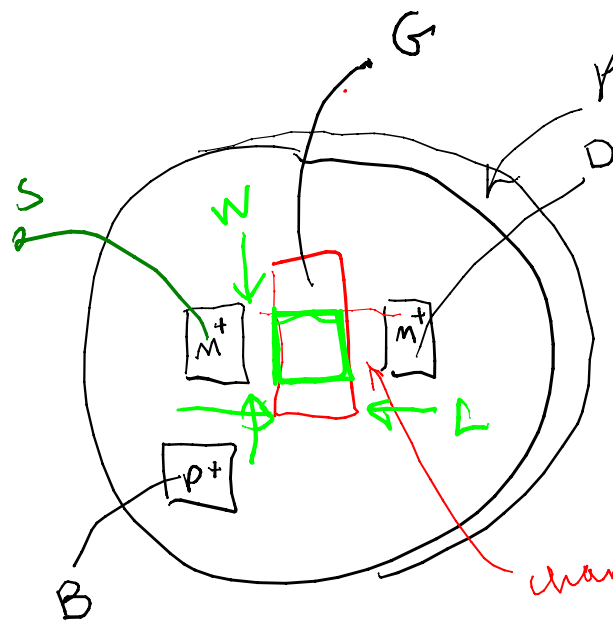
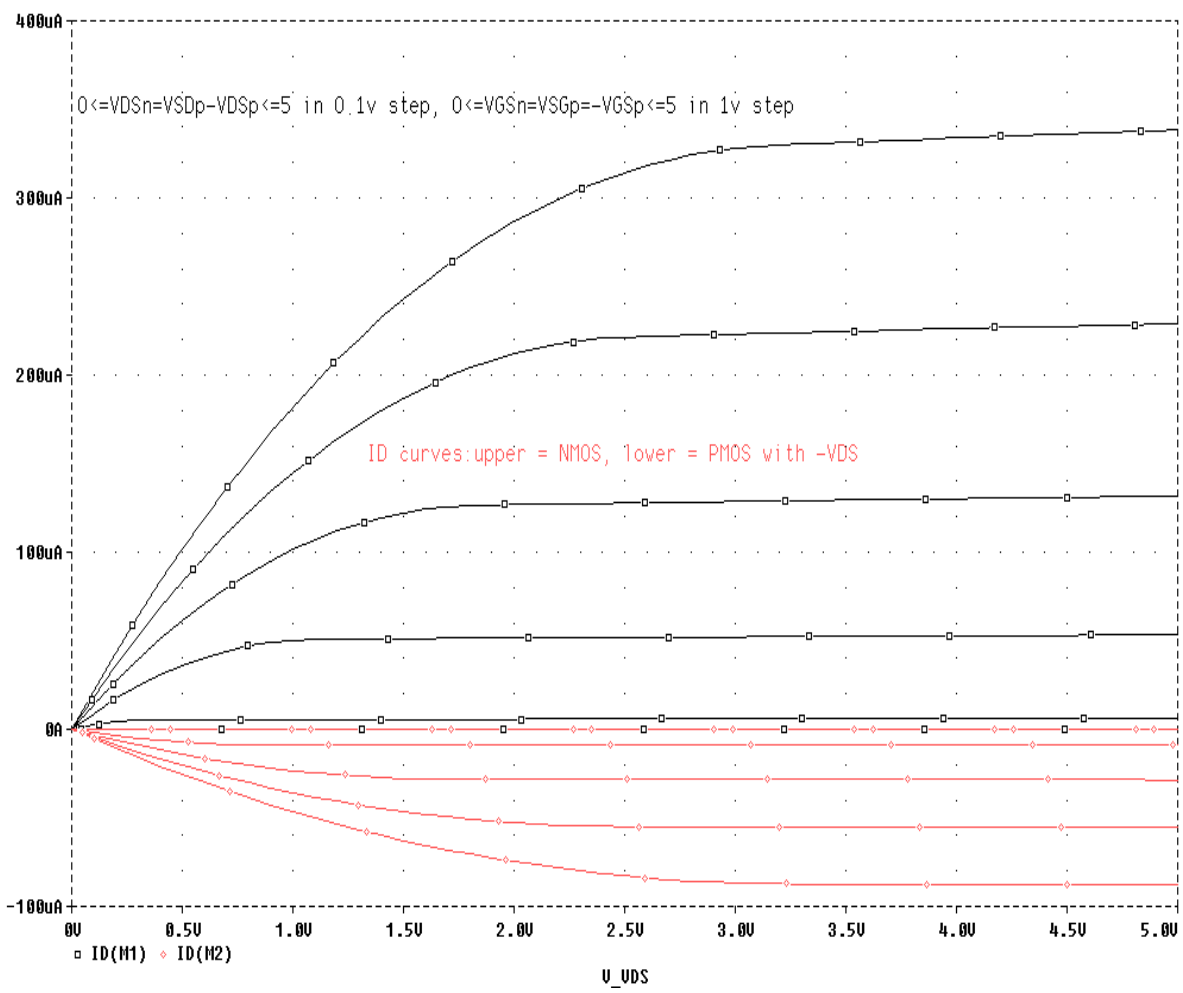


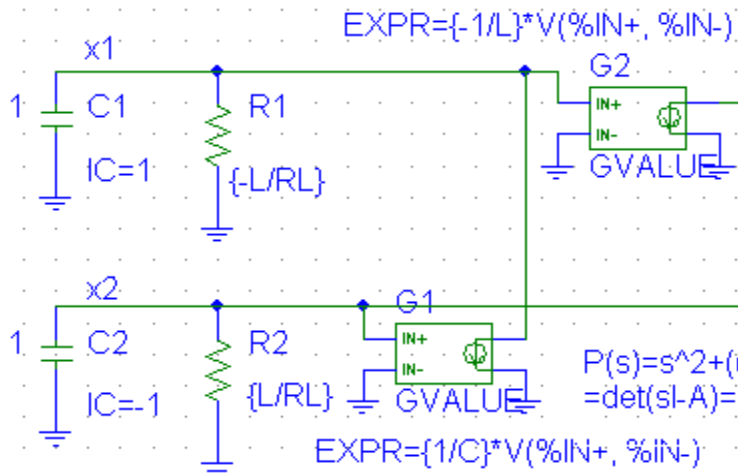
$$\beta i_B = i_C$$











EXPR={-1/L}*V(%IN+, %IN-)

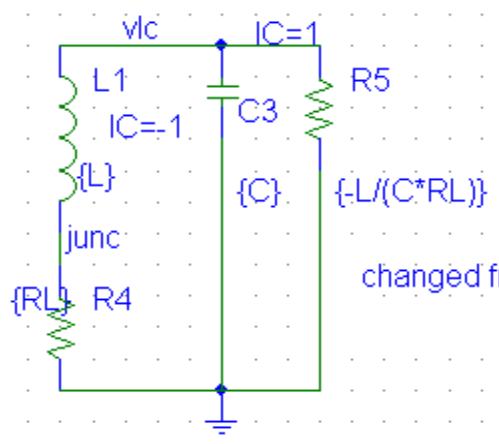
PARAMETERS:

RL	1
L	1
C	0.5

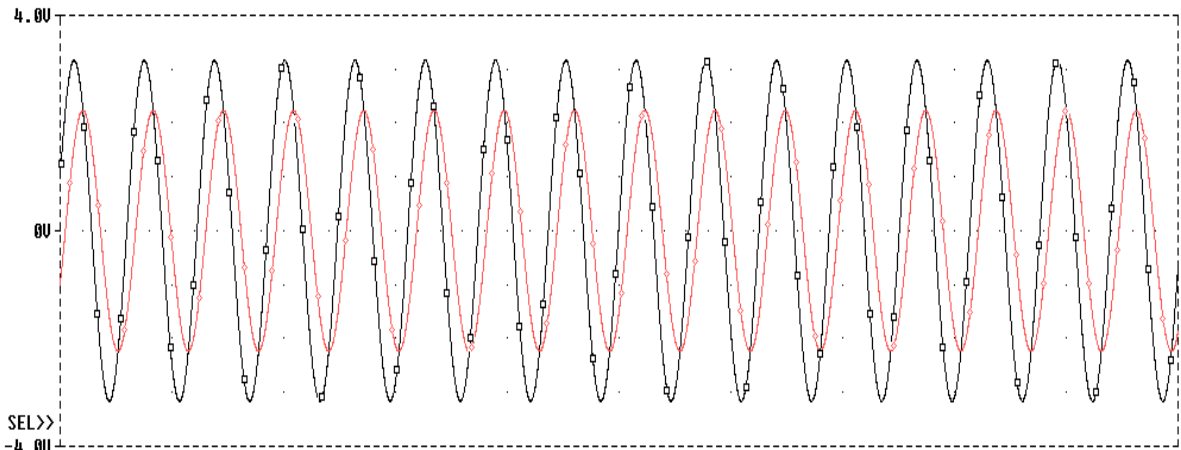
$dx/dt = Ax$, $a_{11} = RL/L$, $a_{12} = 1/L$
 $a_{21} = -1/C$, $a_{22} = -RL/L$

$P(s) = s^2 + ((RL/L) - (RL/L))s + [1/(LC) - (RL/L)^2]$
 $= \det(sI - A) = (s - a_{11})(s - a_{22}) - a_{12}a_{21}$

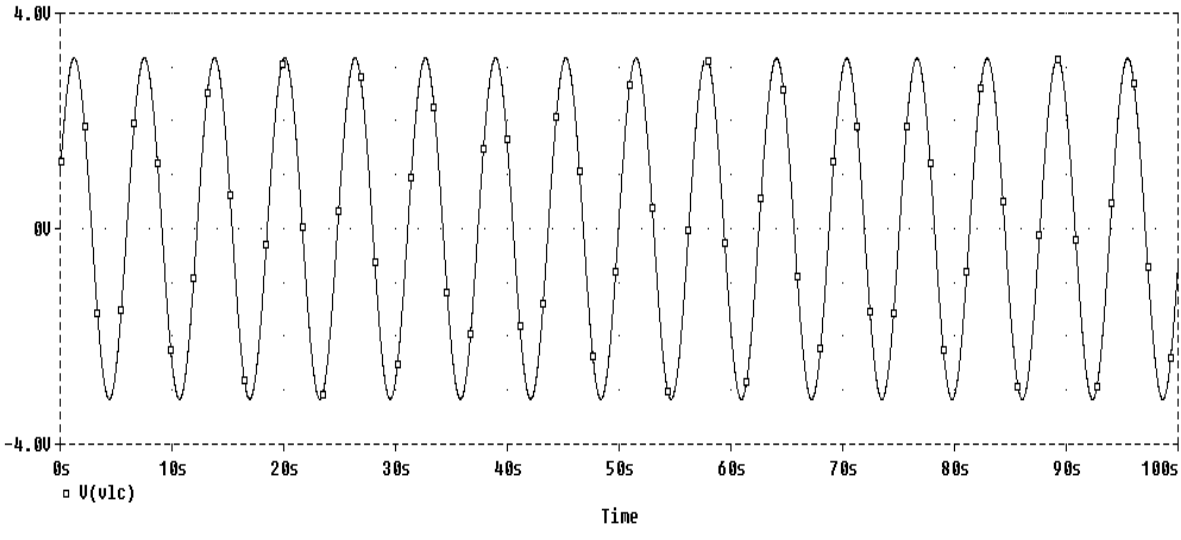
EXPR={1/C}*V(%IN+, %IN-)



changed from $-C/L * RL$



SEL>>
□ U(x1) ♦ U(x2)



□ U(v1c)