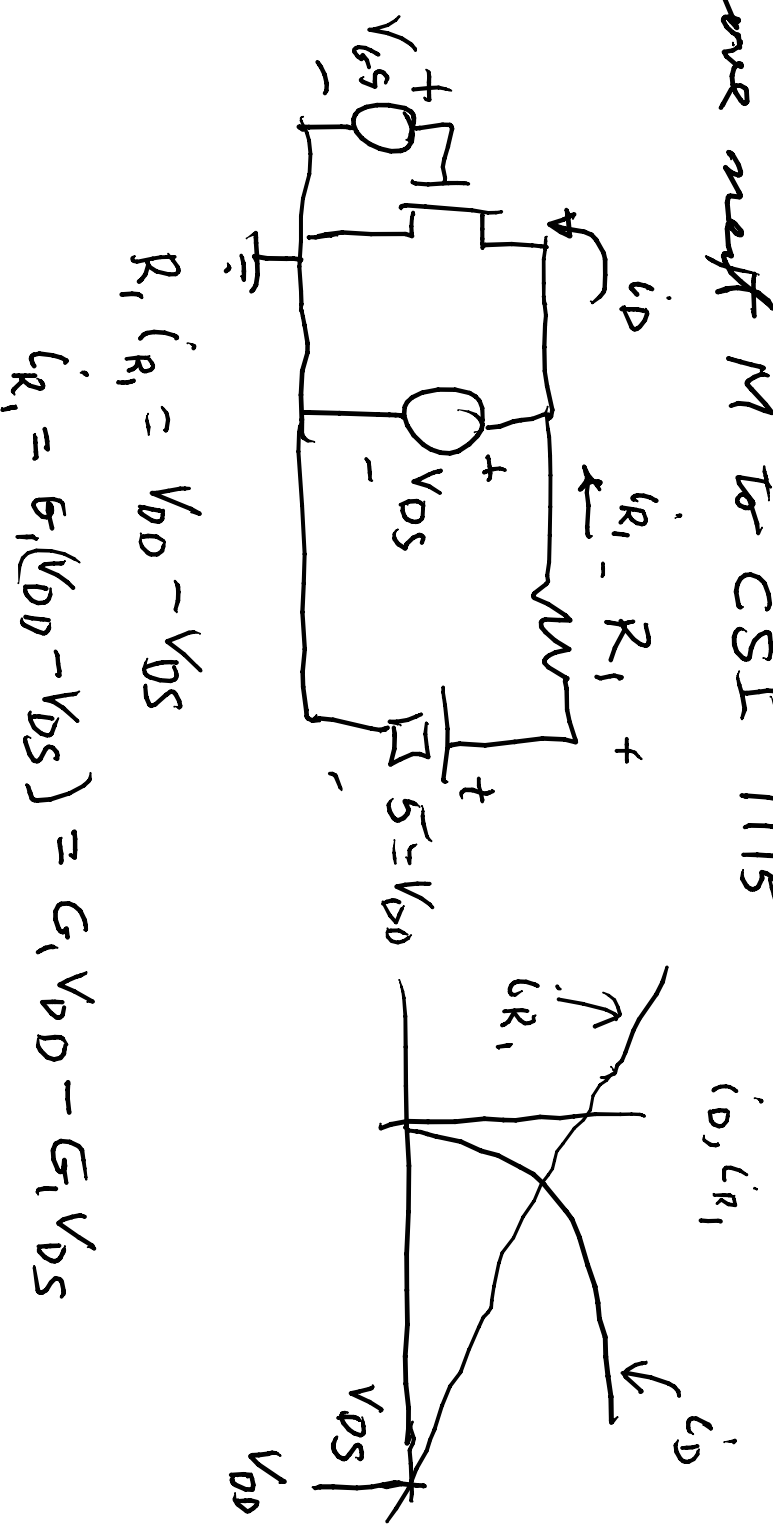
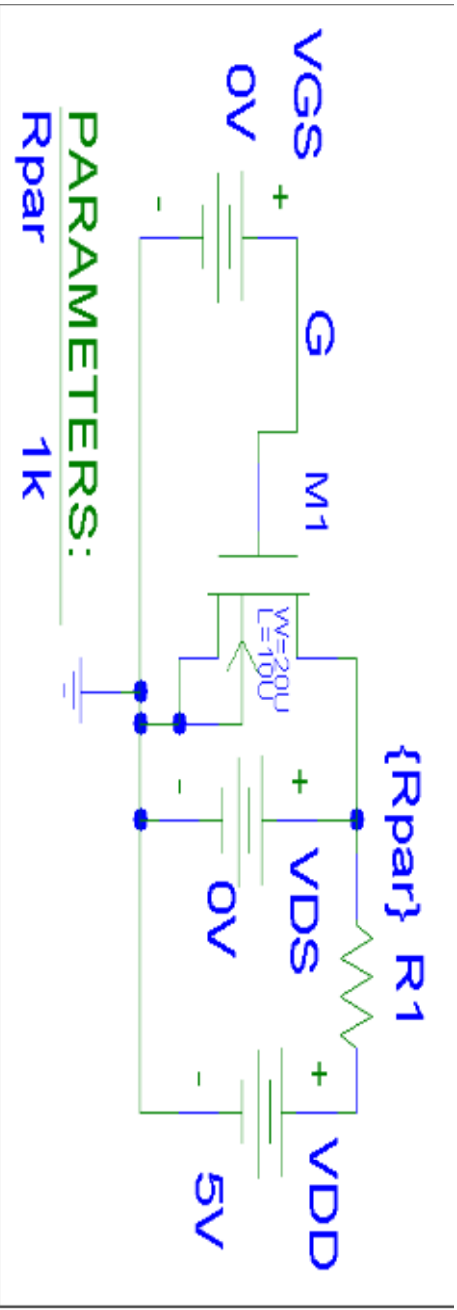


May move next M to CSI 1115

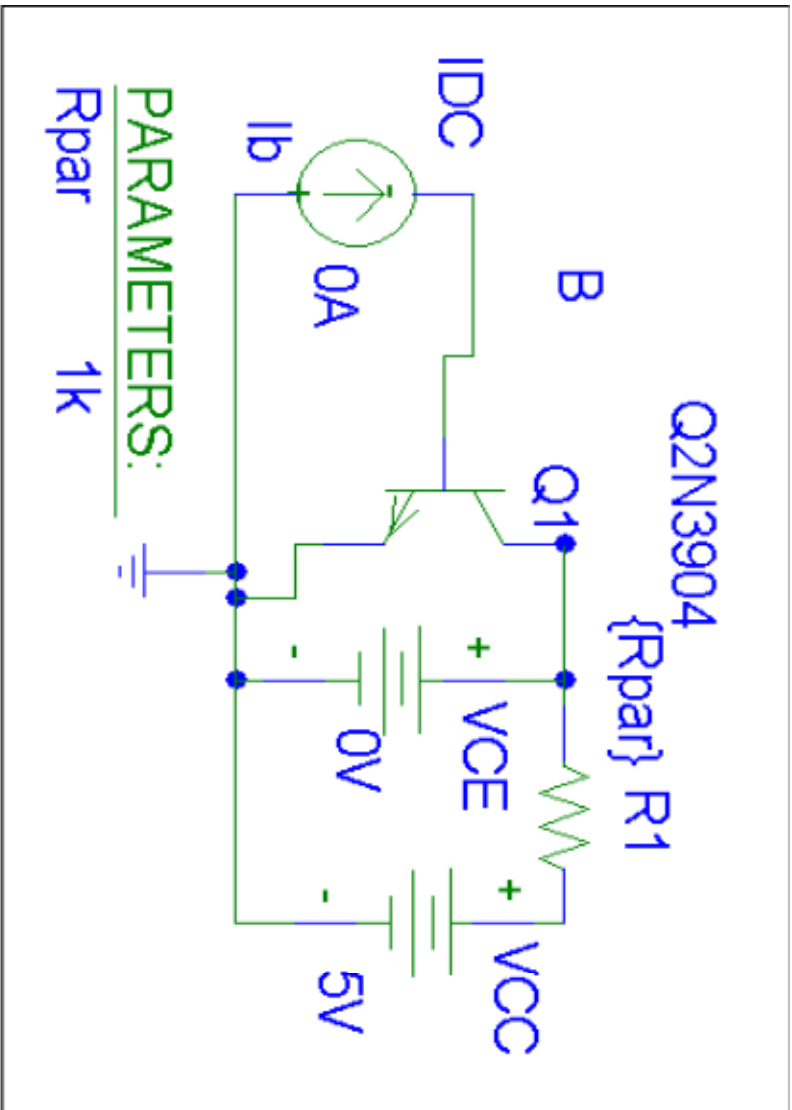


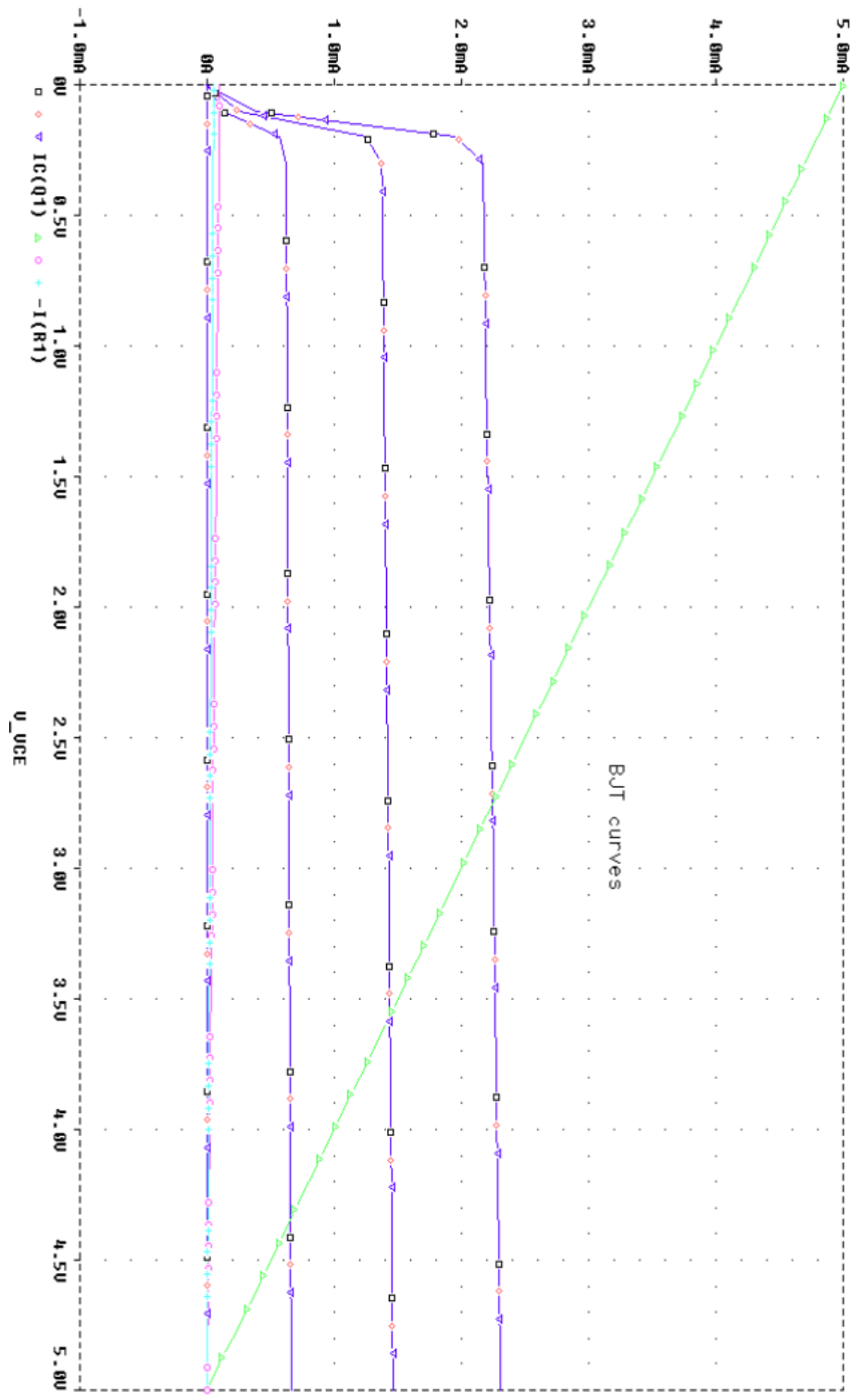
$$R_1 i_{R_1} = V_{DD} - v$$

$$i_{R_1} = G_1 (V_{DD} - v) = G_1 V_{DD} - G_1 v$$

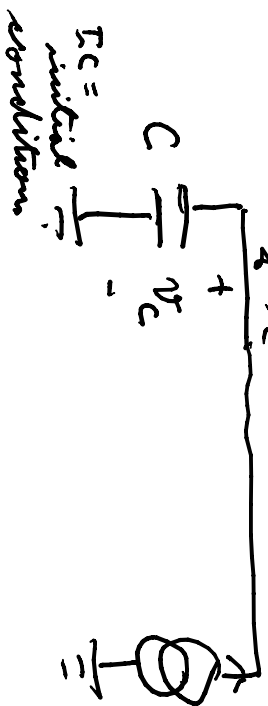


PARAMETERS:
Rpar 1k





Solving an ODE



use a G-value, give it $f(\cdot)$

$$i_C = C \frac{dv_C}{dt} = f(v_C) \text{ device to solve for } v_C$$

ex: $f(x) = -a \tan(bx(t))$ a & $b = \text{parameters}$
 $t = \text{time}$

$$\frac{dx}{dt} = -a \tan(bx)$$

load line

