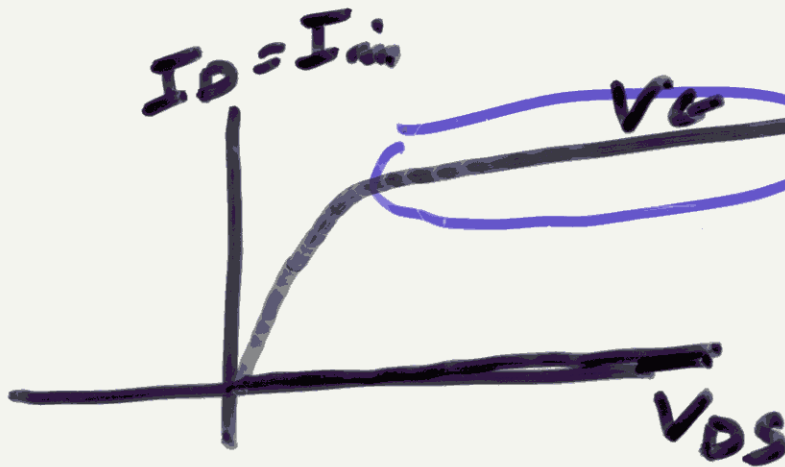
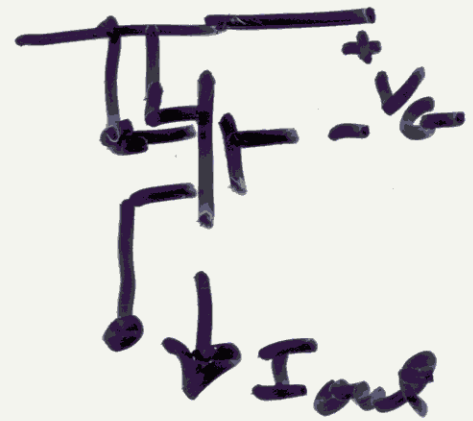
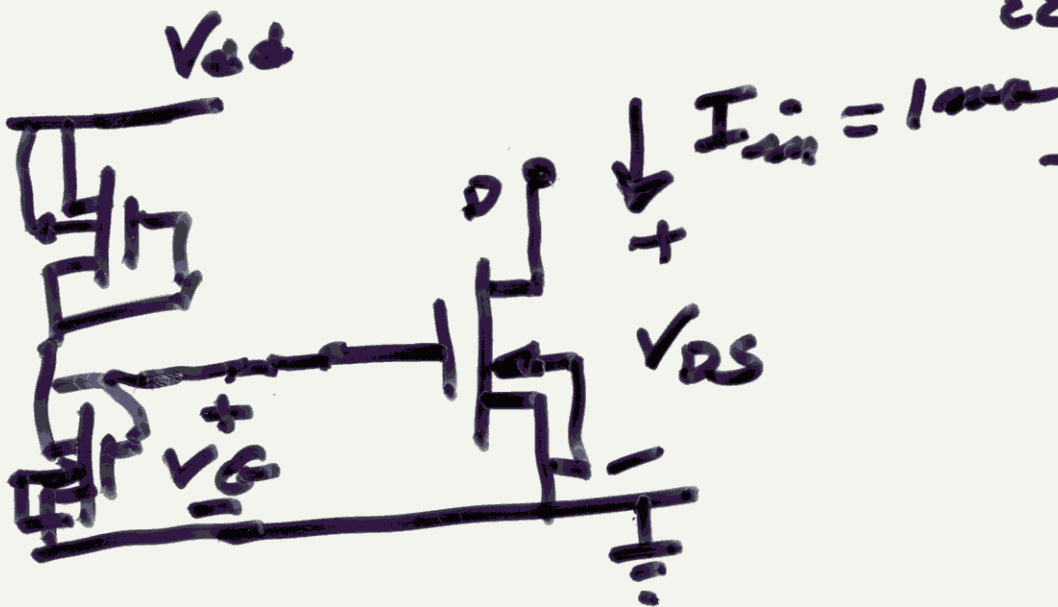




leave to
work out
here for
a current
source

this is
determined
by what is
connected to
D.

$$I_D = I_{in} = 10^{-3}$$

$$= \beta_n (V_G - V_{thn})^2$$

$$V_G = V_{thn} + \sqrt{\frac{I_D}{\beta_n}}$$

Ex: $\beta_n = \frac{K P_n}{2} \cdot \frac{W_n}{L_n} = 0.4 \times 10^{-5}$