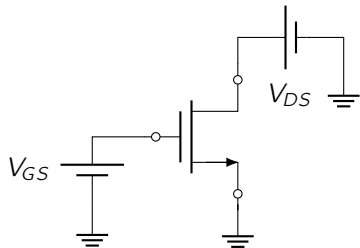
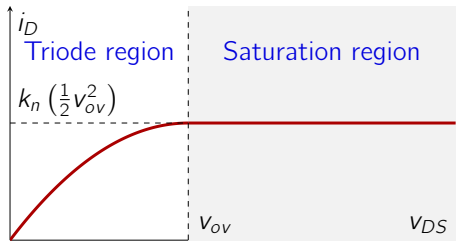


Regions of operation of a MOSFET



Diode I-V Characteristic



MOSFET Triode Region

$$V_{GS} > V_t, V_{DS} < V_{ov}$$

$$i_D = k_n \left(V_{ov} - \frac{1}{2} V_{DS} \right) V_{DS}$$

MOSFET Saturation Region

$$V_{DS} \geq V_{ov}$$

$$i_D = \frac{1}{2} k_n V_{ov}^2$$