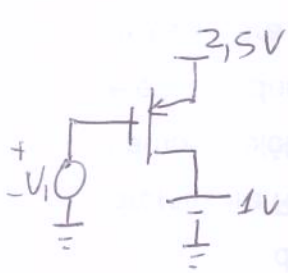


* Exemplo 6.15



$$|V_{TH}| = 0,5V$$

~~$$|V_{GS}| = |V_{DD} - V_t|$$~~

$$|V_{GS}| = |V_{in} - V_{DD}| = 2,5 - V_{in}$$

$$|V_{DS}| = |1 - 2,5|$$

$$|V_{DS}| = 1,5V$$

- Corte $\Rightarrow |V_{GS}| \leq |V_{TH}|$

$$\underline{I_D = 0}$$

$$2,5 - V_{in} \leq 0,5 \Rightarrow \boxed{V_{in} \geq 2V} \Rightarrow \boxed{2V \leq V_{in} \leq 2,5V}$$

- Saturação $\Rightarrow |V_{DS}| > |V_{GS}| - |V_{TH}|$

$$1,5 > 2,5 - V_{in} - 0,5$$

$$\Rightarrow \boxed{V_{in} > 0,5V} \Rightarrow$$

$$\boxed{0,5V < V_{in} < 2V}$$

- Triodo $\Rightarrow V_{in} \leq 0,5V$

$$\Rightarrow \boxed{0 \leq V_{in} \leq 0,5V}$$