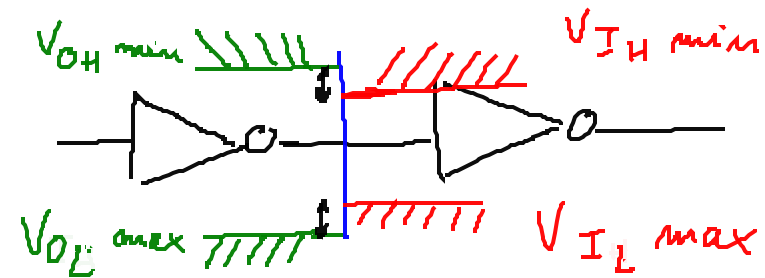


## Exercice 5.4 :

Marge de sensibilité au bruit.



poly de cours p 63.

$$\text{(MOS)} \left( \begin{array}{l} V_{BH} = 4,4 - 3,5 = V_{OH_{min}} - V_{IH_{min}} = \boxed{0,9V = V_{BH}} \\ V_{BB} = V_{IL_{max}} - V_{OL_{max}} = 1,5 - 0,33 = \boxed{1,17V = V_{BB}} \end{array} \right.$$

On retient la valeur la plus contraignante

$$V_B = \min(V_{BH}, V_{BB}) = \boxed{V_{BH} = 0,9V}$$