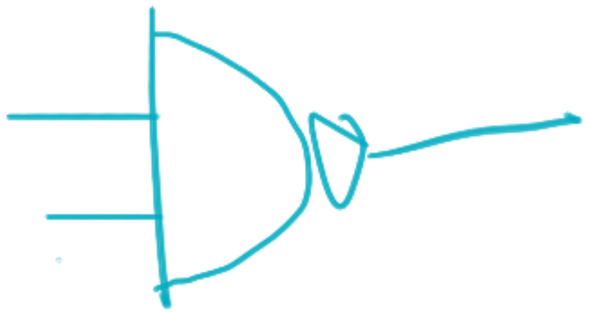


AND + NOT

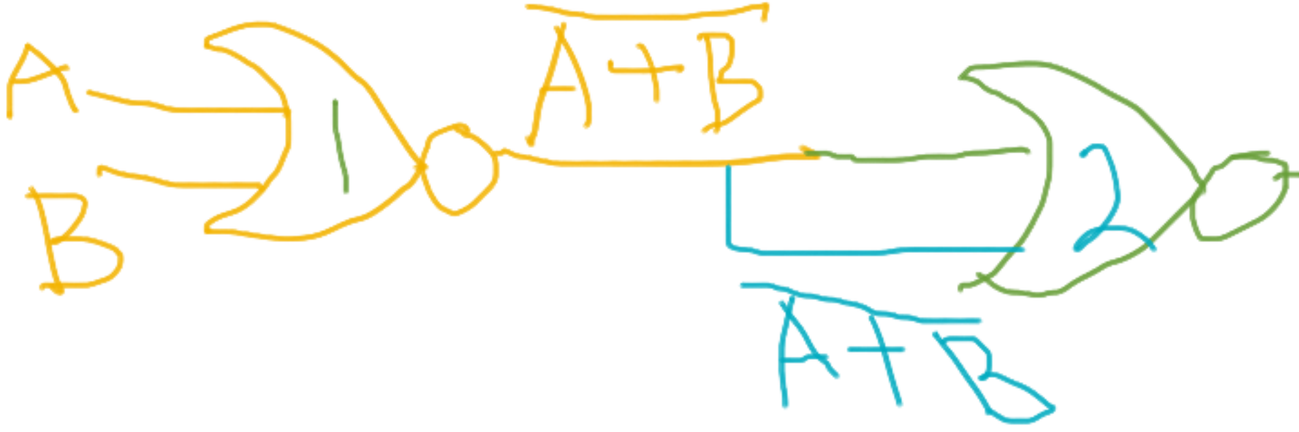
OR + NOT

NOR to NOT

NOR to OR

$\overline{A+B} = \overline{A+A} = A$

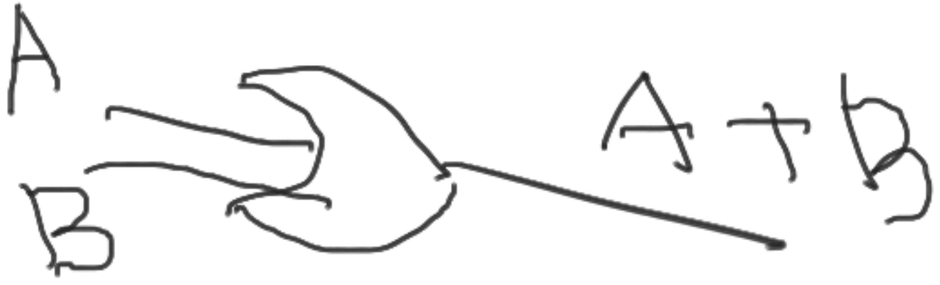
$\overline{\overline{A}} = A$



$Z = \overline{(\overline{A+B})+(\overline{A+B})}$

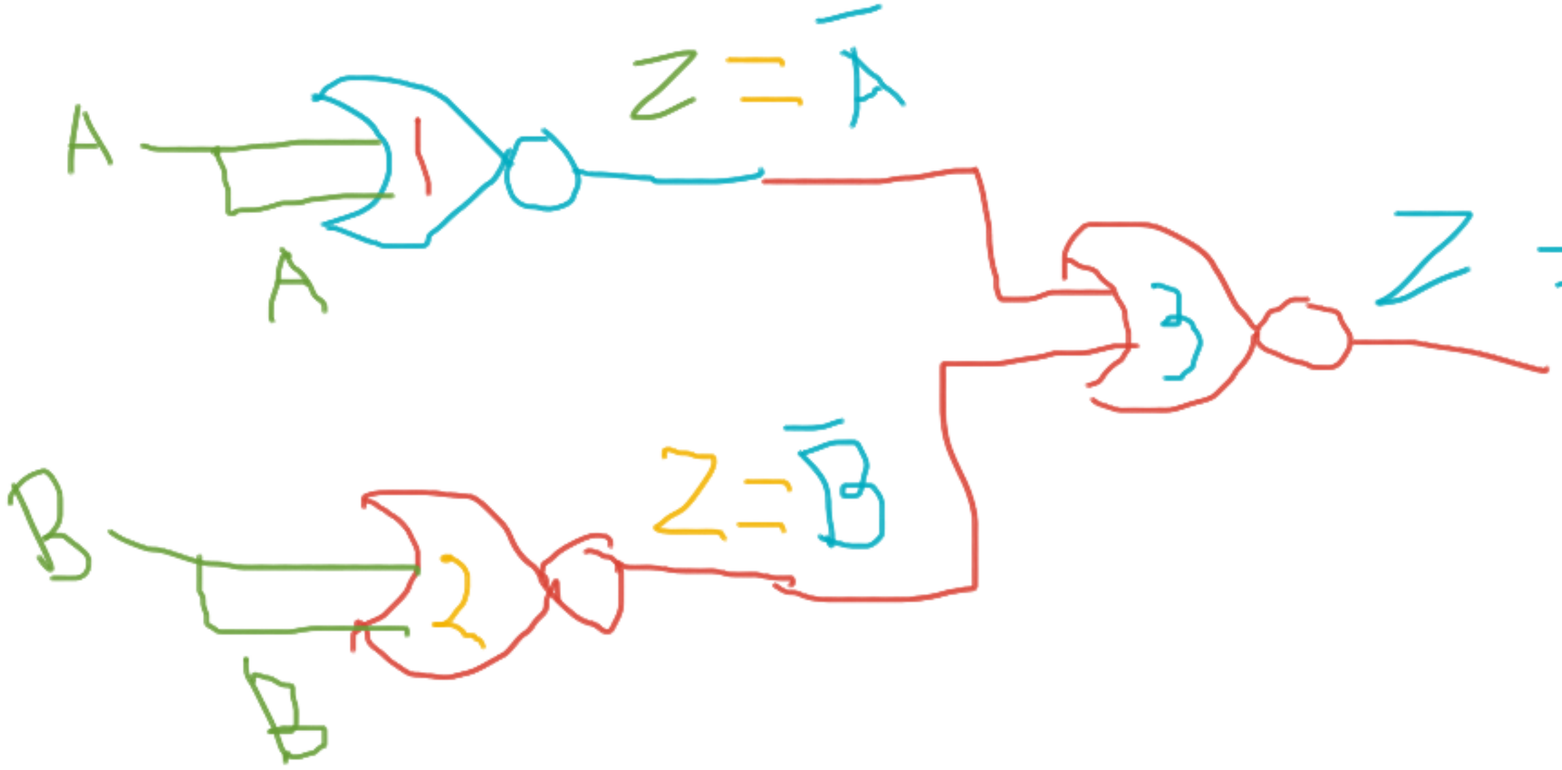
$= \overline{\overline{A+B}}$ [

$= A+B$ [



NOR to AND

$$\overline{A+B} = \bar{A} \cdot \bar{B} \qquad \bar{\bar{A}} = A$$



$$Z = \overline{\bar{A} + \bar{B}}$$

$$= \bar{\bar{A}} \cdot \bar{\bar{B}} [\ ]$$

$$= A \cdot B [\ ]$$