

Table de calcul des opérations dual et °.

$\text{dual}(\text{any}) = \text{any}$	$\text{dual}(\overline{\emptyset}) = \overline{\emptyset}$
$\text{dual}(\emptyset) = \emptyset$	$\text{dual}(\overline{\sqcup}) = \overline{\sqcap}$
$\text{dual}(\sqcup) = \sqcap$	$\text{dual}(\overline{\sqcap}) = \overline{\sqcup}$
$\text{dual}(\sqcap) = \sqcup$	$\text{dual}(\overline{\sqcup, \sqcap}) = \overline{\sqcap, \sqcup}$
$\text{dual}(\sqcap, \sqcup) = \sqcap, \sqcup$	
$\text{dual}(\text{none}) = \text{none}$	

$\text{none} \circ v = \text{none}$
 $v \circ \text{none} = \text{none}$
 $\text{any} \circ v = \text{any} \quad (v \neq \text{none})$
 $v \circ \text{any} = \text{any} \quad (v \neq \text{none})$

$\emptyset \circ \emptyset = \emptyset$
 $\emptyset \circ \sqcup = \emptyset$
 $\emptyset \circ \sqcap = \emptyset$
 $\emptyset \circ \sqcap, \sqcup = \emptyset$
 $\emptyset \circ \overline{\emptyset} = \overline{\emptyset \cap \emptyset} = \overline{\emptyset}$
 $\emptyset \circ \overline{\sqcup} = \overline{\emptyset \cap \sqcup} = \overline{\emptyset}$
 $\emptyset \circ \overline{\sqcap} = \overline{\emptyset \cap \sqcap} = \overline{\emptyset}$
 $\emptyset \circ \overline{\sqcap, \sqcup} = \overline{\emptyset \cap \sqcap, \sqcup} = \overline{\emptyset}$

$\sqcup \circ \emptyset = \emptyset$
 $\sqcap \circ \emptyset = \emptyset$
 $\sqcap, \sqcup \circ \emptyset = \emptyset$
 $\overline{\emptyset} \circ \emptyset = \overline{\emptyset \cap \emptyset} = \overline{\emptyset}$
 $\overline{\sqcup} \circ \emptyset = \overline{\sqcup \cap \emptyset} = \overline{\emptyset}$
 $\overline{\sqcap} \circ \emptyset = \overline{\sqcap \cap \emptyset} = \overline{\emptyset}$
 $\overline{\sqcap, \sqcup} \circ \emptyset = \overline{\sqcap, \sqcup \cap \emptyset} = \overline{\emptyset}$

$$\begin{aligned}
 U \circ U &= U \\
 U \circ \emptyset &= \emptyset \\
 U \circ U, \Gamma &= U \\
 U \circ \overline{\emptyset} &= \overline{\Gamma \wedge \emptyset} = \overline{\emptyset} \\
 U \circ \overline{U} &= \overline{\Gamma \wedge U} = \overline{\emptyset} \\
 U \circ \overline{\Gamma} &= \overline{\Gamma \wedge \Gamma} = \overline{\Gamma} \\
 U \circ \overline{U, \Gamma} &= \overline{\Gamma \wedge U, \Gamma} = \overline{\Gamma}
 \end{aligned}$$

$$\begin{aligned}
 \Gamma \circ U &= \emptyset \\
 U, \Gamma \circ U &= U \\
 \overline{\emptyset} \circ U &= \overline{\emptyset \wedge U} = \overline{\emptyset} \\
 \overline{U} \circ U &= \overline{U \wedge U} = \overline{U} \\
 \overline{\Gamma} \circ U &= \overline{\Gamma \wedge U} = \overline{\emptyset} \\
 \overline{U, \Gamma} \circ U &= \overline{U, \Gamma \wedge U} = \overline{U}
 \end{aligned}$$

$$\begin{aligned}
 \Gamma \circ \Gamma &= \Gamma \\
 \Gamma \circ \Gamma, U &= \Gamma \\
 \Gamma \circ \overline{\emptyset} &= \overline{U \wedge \emptyset} = \overline{\emptyset} \\
 \Gamma \circ \overline{U} &= \overline{U \wedge U} = \overline{U} \\
 \Gamma \circ \overline{\Gamma} &= \overline{U \wedge \Gamma} = \overline{\emptyset} \\
 \Gamma \circ \overline{U, \Gamma} &= \overline{U \wedge U, \Gamma} = \overline{U}
 \end{aligned}$$

$$\begin{aligned}
 U, \Gamma \circ \Gamma &= \Gamma \\
 \overline{\emptyset} \circ \Gamma &= \overline{\emptyset \wedge \Gamma} = \overline{\emptyset} \\
 \overline{U} \circ \Gamma &= \overline{U \wedge \Gamma} = \overline{\emptyset} \\
 \overline{\Gamma} \circ \Gamma &= \overline{\Gamma \wedge \Gamma} = \overline{\Gamma} \\
 \overline{U, \Gamma} \circ \Gamma &= \overline{U, \Gamma \wedge \Gamma} = \overline{\Gamma}
 \end{aligned}$$

$$\begin{aligned}
 U, \Gamma \circ U, \Gamma &= U, \Gamma \\
 U, \Gamma \circ \overline{\emptyset} &= \overline{U, \Gamma \wedge \emptyset} = \overline{\emptyset} \\
 U, \Gamma \circ \overline{U} &= \overline{U, \Gamma \wedge U} = \overline{U} \\
 U, \Gamma \circ \overline{\Gamma} &= \overline{U, \Gamma \wedge \Gamma} = \overline{\Gamma} \\
 U, \Gamma \circ \overline{U, \Gamma} &= \overline{U, \Gamma \wedge U, \Gamma} = \overline{U, \Gamma}
 \end{aligned}$$

$$\begin{aligned}
 \overline{\emptyset} \circ U, \Gamma &= \overline{\emptyset \wedge U, \Gamma} = \overline{\emptyset} \\
 \overline{U} \circ U, \Gamma &= \overline{U \wedge U, \Gamma} = \overline{U} \\
 \overline{\Gamma} \circ U, \Gamma &= \overline{\Gamma \wedge U, \Gamma} = \overline{\Gamma} \\
 \overline{U, \Gamma} \circ U, \Gamma &= \overline{U, \Gamma \wedge U, \Gamma} = \overline{U, \Gamma}
 \end{aligned}$$

$$\begin{aligned}
 \overline{\emptyset} \circ \overline{\emptyset} &= \emptyset \\
 \overline{\emptyset} \circ \overline{U} &= \emptyset \wedge U = \emptyset \\
 \overline{\emptyset} \circ \overline{\Gamma} &= \emptyset \wedge \Gamma = \emptyset \\
 \overline{\emptyset} \circ \overline{U, \Gamma} &= \emptyset \wedge U, \Gamma = \emptyset
 \end{aligned}$$

$$\begin{aligned}
 \overline{U} \circ \overline{\emptyset} &= \Gamma \wedge \emptyset = \emptyset \\
 \overline{\Gamma} \circ \overline{\emptyset} &= U \wedge \emptyset = \emptyset \\
 \overline{U, \Gamma} \circ \overline{\emptyset} &= U, \Gamma \wedge \emptyset = \emptyset
 \end{aligned}$$

Os conjuntos (A) e (B) são disjuntos e (C) é o complementar de (A) e (B) em (U).

$$U \circ U = U \cap U = U \quad | \quad \bar{U} \circ \bar{U} = U \cap U = U$$

$$U \circ \bar{U} = U \cap \bar{U} = \emptyset \quad | \quad \bar{U} \circ U = \bar{U} \cap U = \emptyset$$

$$U \circ U, \bar{U} = U \cap U, \bar{U} = U \quad | \quad \bar{U} \circ U, \bar{U} = \bar{U} \cap U, \bar{U} = \bar{U}$$

$$\bar{U} \circ \bar{U} = U \cap U = U$$

$$\bar{U}, \bar{U} \circ \bar{U} = U, \bar{U} \cap U, \bar{U} = \bar{U}$$

$$\bar{U} \circ U, \bar{U} = U \cap U, \bar{U} = \bar{U}$$

$$\bar{U}, \bar{U} \circ U, \bar{U} = U, \bar{U} \cap U, \bar{U} = \bar{U}$$